

## NEON BLAZE™ AMBER 24V Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options.

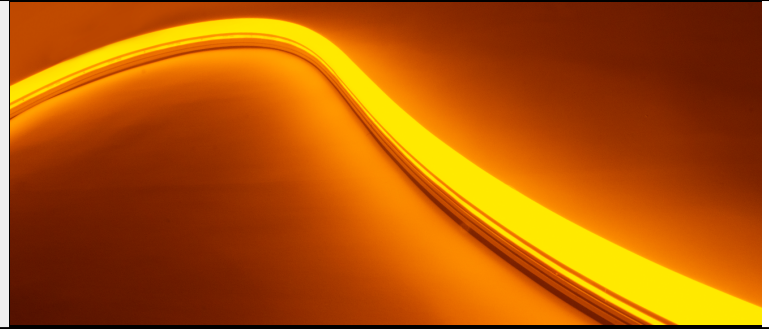
Date \_\_\_\_\_

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

**TURTLE SAFE**

### FEATURES

- Fully diffused, dotless light
- Top-bending and side-bending options with multiple output levels
- IP65 for wet locations and UV stabilized for outdoor use
- Complies with Wildlife Lighting Turtle Safe Requirements
- 5 Year limited warranty



### ORDERING CODES

Order spools, and components for field assembly

### OPTIONAL ORDERING CODES

Mounting, drivers, and assembly preference

| Diode LED | Voltage | Form  | Model | CCT           | Length           | Channels   | Finish   | Mounting   |   | Driver  |  | Delivery  |
|-----------|---------|---|-------|---------------|------------------|--|--|--|---|---|--|---|
| DI        |         |   |       |               |                  |  |  |  |   |   |  |   |
|           | 24V     | SE<br>(Side Bending)<br>TE<br>(Top Bending) | NBL1  | GL<br>(Amber) | 65<br>(65.6 ft.) | CHN<br>(Neon Top Bend)<br>SPN<br>(Neon Top Spine)<br>CHN<br>(Neon Side Bend)<br>SPN<br>(Neon Side Spine) | AL<br>(Aluminum)<br>WH<br>(White)<br>BL<br>(Black) | 3M<br>(3M Adhesive)<br>MC<br>(Mounting Clip)<br>UC<br>(U-Clip) | VC<br>(Vertical Clip)<br>HNG<br>(Hanging Hardware)<br>RC<br>(Rotating Clip) | ELV<br>(Electronic)<br>D10<br>(0-10V)<br>MAG<br>(Magnetic)<br>SWX<br>(Switchex) | O/O<br>(On / Off)<br>LUT<br>(Lutron)<br>PoE<br>(Power over Ethernet) | FIELD<br>HYBRID<br>FACTORY<br>*See Delivery Options |

| Model                 | 24V-SE-NBL1                           | 24V-TE-NBL1                           |
|-----------------------|---------------------------------------|---------------------------------------|
| Voltage               | 24V                                   | 24V                                   |
| Wattage               | 1.22 W/ft.                            | 1.22 W/ft.                            |
| Lumens Amber          | 31/ft.                                | 70/ft.                                |
| Cut Points            | 2 in.                                 | 2 in.                                 |
| Max Run (ft.)         | 65 ft.                                | 65 ft.                                |
| Max Run (Class 2)     | 78 ft.                                | 78 ft.                                |
| CRI                   | 80+                                   | 80+                                   |
| Dimensions            | 0.37 in. x 0.75 in. x in. (W x H x L) | 0.65 in. x 0.59 in. x in. (W x H x L) |
| Environment           | Outdoor / Wet Location (IP65)         | Outdoor / Wet Location (IP65)         |
| Ambient Temperature   | -4 ~ 122°F (-20 ~ 50°C)               | -4 ~ 122°F (-20 ~ 50°C)               |
| Operating Temperature | -4 ~ 176°F (-20 ~ 80°C)               | -4 ~ 176°F (-20 ~ 80°C)               |
| Certification         | UL Listed 2108                        | UL Listed 2108                        |
| Warranty              | 5 Year                                | 5 Year                                |

### NEON BLAZE™ AMBER 24V

#### Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options.

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

**TURTLE SAFE**

### RECOMMENDED DRIVERS

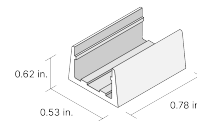
| SKU   | WATTAGE | LENGTH    | WIDTH    | HEIGHT   |
|---|---------|-----------|----------|----------|
| <b>OMNIDRIVE® X Dimmable Driver</b><br>Versatile driver for most high-performance dimming applications. Dims to dark depending on installation.           |         |           |          |          |
| DI-ODX-24V30W-J   | 30W     | 6.5 in.   | 3.7 in.  | 1.36 in. |
| DI-ODX-24V60W-J   | 60W     | 7.4 in.   | 3.7 in.  | 1.36 in. |
| DI-ODX-24V96W-J   | 96W     | 8.66 in.  | 3.7 in.  | 1.36 in. |
| DI-ODX-24V120W-J  | 120W    | 8.66 in.  | 3.7 in.  | 1.36 in. |
| DI-ODX-24V200W-J  | 200W    | 10.24 in. | 4.92 in. | 1.95 in. |
| <b>SWITCHEX® Driver and Dimmer Switch</b><br>LED driver and dimmer switch combined in a single gang box. Simplify your installation and save labor costs. |         |           |          |          |
| DI-24V-SE-60W   | 60W     | 1.4 in.   | 2.1 in.  | 4.1 in.  |
| DI-24V-SE-100W  | 100W    | 1.4 in.   | 2.1 in.  | 4.1 in.  |
| <b>VLM Series Constant Voltage Drivers</b><br>Compact constant-voltage LED driver   |         |           |          |          |
| VLM60W-24-LPM   | 60W     | 8.19 in.  | 2.94 in. | 1.31 in. |
| VLM100W-24-LPM  | 100W    | 8.19 in.  | 2.94 in. | 1.31 in. |
| <b>LUTRON® Hi-Lume 1% Dimmable LED Drivers</b><br>High-performance dimming on Lutron control systems.   |         |           |          |          |
| DI-DM-24V40W-L3D  | 40W     | 4.89 in.  | 4 in.    | 2.62 in. |
| DI-DM-24V40W-LTE  | 40W     | 4.89 in.  | 4 in.    | 2.62 in. |
| <b>LUTRON® Hi-Lume Premier 0.1% LED Driver</b><br>High-performance dimming on Lutron control systems.   |         |           |          |          |
| DI-DM-24V96W-L3D  | 96W     | 5.5 in.   | 2.2 in.  | 10.5 in. |
| <b>PoE</b><br>24V constant voltage platform, ready for Power over Ethernet (Inquire)  |         |           |          |          |

### MOUNTING OPTIONS

#### SIDE BENDING

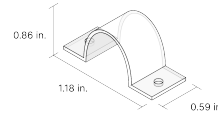
**DI-SE-NB-BUC-16**  
Bottom U-Clip (TBC)

Side Bending Mounting Clip



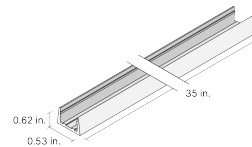
**DI-SE-NB-TUC-16**  
Top U-Clip (TTC)

Side Bending Mounting Clip



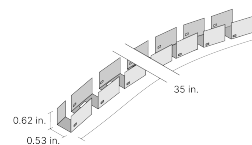
**DI-SE-NB-MTCH**  
Mounting Channel

Anodized Aluminum Side Bending Mounting Channel



**DI-SE-NB-FLCH-WH**  
Flexible Mounting Channel

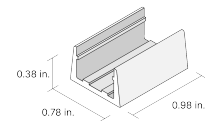
Flexible Side Bending Mounting Channel



#### TOP BENDING

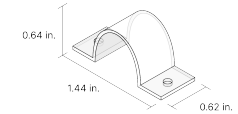
**DI-TE-NB-BUC-16**  
Bottom U-Clip (TBC)

Top Bending Mounting Clip



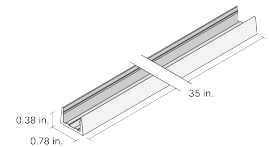
**DI-TE-NB-TUC-16**  
Top U-Clip (TTC)

Top Bending Mounting Clip



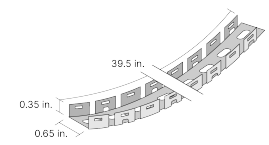
**DI-TE-NB-MTCH**  
Mounting Channel

Anodized Aluminum Top Bending Mounting Channel



**DI-TE-NB-FLCH-WH**  
Flexible Mounting Channel

Flexible Top Bending Mounting Channel



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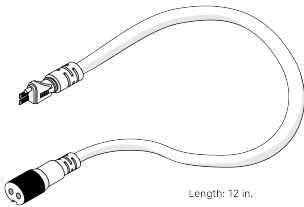
Project Notes \_\_\_\_\_

**TURTLE SAFE**

### SIDE BENDING ACCESSORIES

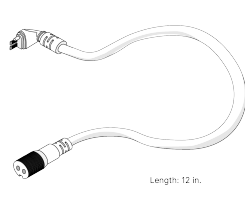
#### DI-SE-NB-STWC-EC Straight Wire Entry Connector

16 AWG, side bending connector



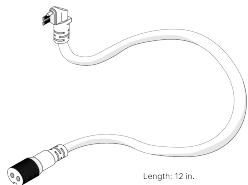
#### DI-SE-NB-SDWC-EC Side Wire Entry Connector

16 AWG, side bending connector



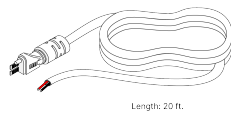
#### DI-SE-NB-BWC-EC Bottom Wire Entry Connector

16 AWG, side bending connector



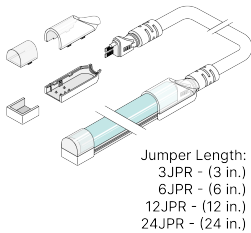
#### DI-SE-NB-STBW-20 Straight wire entry Connector

16 AWG, 20 foot, Bare Lead Side Bending Connector



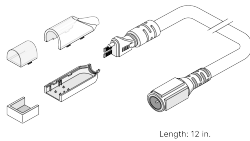
#### DI-SE-NB-JPR Straight Wire Entry Jumper

Side bending jumper with various lengths



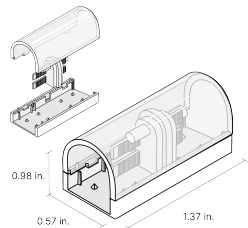
#### DI-SE-NB-SDWC-EC-FDC DC Barrel Plug

16 AWG, Side Bending Straight Wire Entry Frosted DC Connector



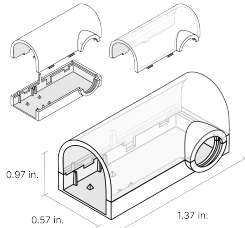
#### DI-SE-NB-TTT-2 Strip-to-Strip Connector

Frosted Side Bending Strip-to-Strip Connector



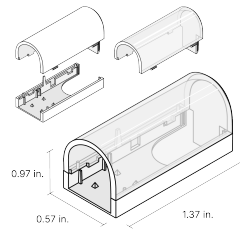
#### Side Wire Entry Connector Side Bending Opaque and Frosted Covers

Included with side bending side wire entry connector



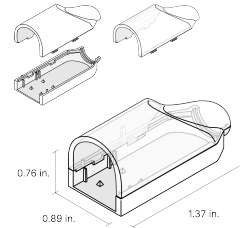
#### Bottom Wire Entry Connector Side Bending Opaque and Frosted Covers

Included with side bending bottom wire entry connector



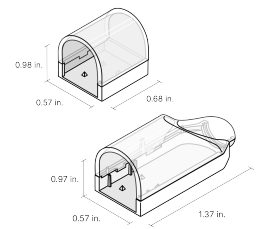
#### Straight Wire Entry Connector Top Bending Opaque and Frosted Covers

Included with Top Bending Straight Wire Entry Connector



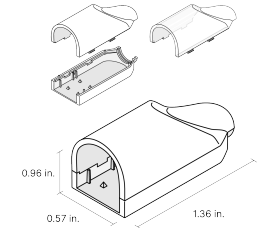
#### Straight Wire Entry Jumper Side Bending Frosted Cover and End Cap

Included with straight wire entry Jumper



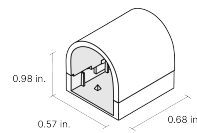
#### Straight Wire Entry Connector Side Bending Opaque and Frosted Covers

Included with side bending straight wire entry connector



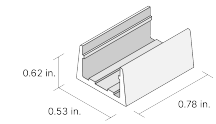
#### DI-SE-NB-EC-5 Side Bending End Cap

Included with all Connectors



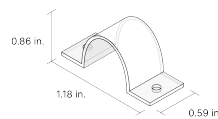
#### DI-SE-NB-BUC-16 Bottom U-Clip (TBC)

Side Bending Mounting Clip



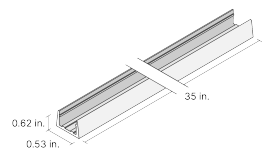
#### DI-SE-NB-TUC-16 Top U-Clip (TTC)

Side Bending Mounting Clip



#### DI-SE-NB-MTCH Mounting Channel

Anodized Aluminum Side Bending Mounting Channel



### NEON BLAZE™ AMBER 24V

#### Diffused LED Lighting

Diffused, neon-like LED lighting with top-bending and side-bending options.

Date \_\_\_\_\_

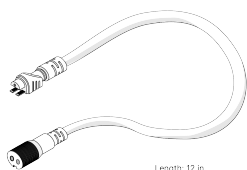
Project Notes \_\_\_\_\_

**TURTLE SAFE**

### SIDE BENDING ACCESSORIES

#### DI-TE-NB-STWC-EC Straight Wire Entry Connector

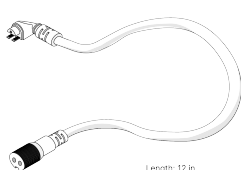
16 AWG, Top Bending Connector



Length: 12 in.

#### DI-TE-NB-SDWC-EC Side wire Entry Connector

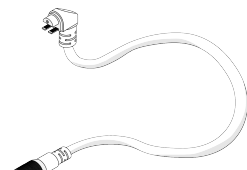
16 AWG, Top Bending Connector



Length: 12 in.

#### DI-TE-NB-BWC-EC Bottom Wire Entry Connector

16 AWG, Top Bending Connector



Length: 12 in.

#### DI-TE-NB-STBW-20 Straight wire entry Connector

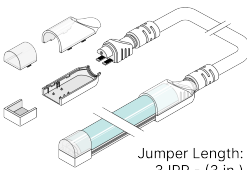
16 AWG, 20 foot, Bare Lead Top Bending Connector



Length: 20 in.

#### DI-TE-NB-JPR Straight Wire Entry Jumper

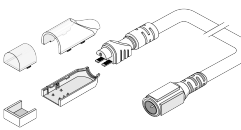
Top Bending Jumper with various lengths



Jumper Length:  
3JPR - (3 in.)  
6JPR - (6 in.)  
12JPR - (12 in.)  
24JPR - (24 in.)

#### DI-TE-NB-SDWC-EC-FDC DC Barrel Plug

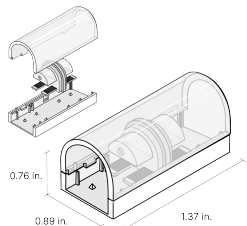
16 AWG, Top Bending Straight Wire Entry Frosted DC Connector



Length: 12 in.

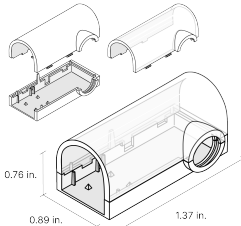
#### DI-TE-NB-TTT-2 Strip-to-Strip Connector

Frosted Top Bending Strip-to-Strip Connector



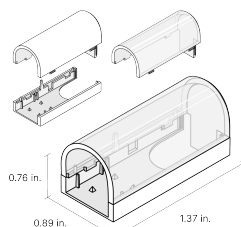
#### Side wire Entry Connector Top Bending Opaque and Frosted Covers

Included with Top Bending Top Wire Entry Connector



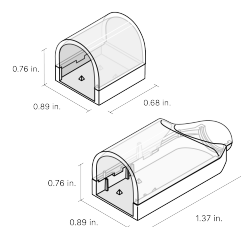
#### Bottom Wire Entry Connector Top Bending Opaque and Frosted Covers

Included with Top Bending Bottom Wire Entry Connector



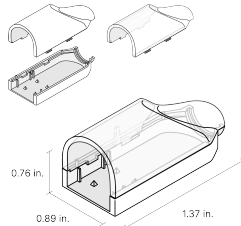
#### Straight Wire Entry Jumper Top Bending Frosted Cover and End Cap

Included with Straight Wire Entry Jumper



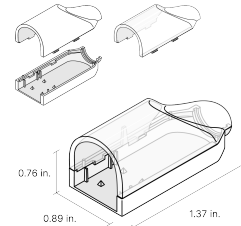
#### Straight Wire Entry Connector Top Bending Opaque and Frosted Covers

Included with Top Bending Straight Wire Entry Connector



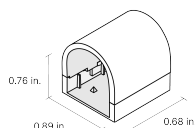
#### Straight Wire Entry Connector Top Bending Opaque and Frosted Covers

Included with Top Bending Straight Wire Entry Connector



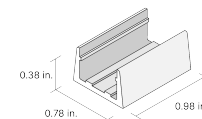
#### DI-TE-NB-EC-5 Top Bending End Cap

Included with all Connectors



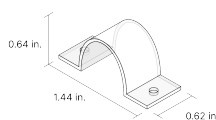
#### DI-TE-NB-BUC-16 Bottom U-Clip (TBC)

Top Bending Mounting Clip



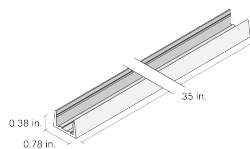
#### DI-TE-NB-TUC-16 Top U-Clip (TTC)

Top Bending Mounting Clip



#### DI-TE-NB-MTCH Mounting Channel

Anodized Aluminum Top Bending Mounting Channel



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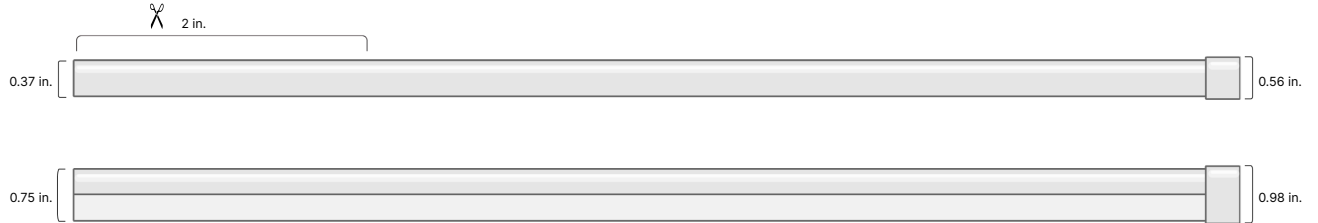
Date \_\_\_\_\_

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

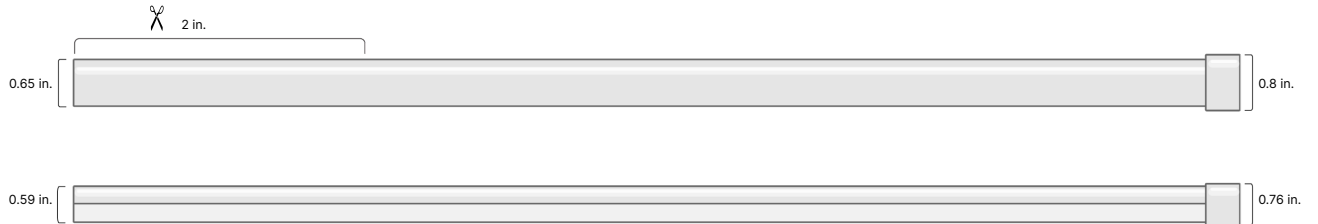
**TURTLE SAFE**

### MECHANICAL DIAGRAMS

#### 24V-SE-NBL1



#### 24V-TE-NBL1



### DELIVERY OPTIONS

- Field Assembly

Stock items for in-field assembly. Fastest order fulfillment.

- Factory + Field (Hybrid)

Finished lengths of light with leads. Channels either bulk or factory finished. Some field assembly required.

- Factory Assembly

Fastest installation: fixtures fully assembled in the factory.

- 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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TURTLE SAFE

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.
- CE & EMC Compliant.

Environmental

- RoHS Compliant.

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 LED chips are exposed to direct sunlight as damage to the phosphor will occur.
8. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
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 Years

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/](http://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.