# LED LIGHT GUIDE PANEL

**SPECIFICATION SHEET**

**Item #**

**Project**

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**DI-LGP-4**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Voltage</strong></td>
<td>12VDC or 24VDC</td>
</tr>
<tr>
<td><strong>CCT</strong></td>
<td>2400K, 2700K, 3000K, 3500K, 4000K, 5000K, 6500K, RGB, RGBW, Tunable White</td>
</tr>
<tr>
<td><strong>CRI</strong></td>
<td>80+ or 90+</td>
</tr>
<tr>
<td><strong>Dimmable</strong></td>
<td>Yes</td>
</tr>
<tr>
<td><strong>Diffusion</strong></td>
<td>None or Diffuser Film</td>
</tr>
<tr>
<td><strong>Maximum Dimensions</strong></td>
<td>54 x 94 in. (H x L)</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Indoor / Dry Location</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>UL Listed 48</td>
</tr>
<tr>
<td><strong>Warranty</strong></td>
<td>5-Year Warranty</td>
</tr>
</tbody>
</table>

*WARNING: NOT FOR USE IN SUBMERSIBLE APPLICATIONS*

## FEATURES

- Most popular sign lighting solution
- Customizable to your specifications
- Provides bright, even lighting
- Premium diffused, no hot spots

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**SKU Builder**

**DI** - **LGP** - **4** - **Expediency**

<table>
<thead>
<tr>
<th>Expediency</th>
<th>(Standard)</th>
<th>(Expedited)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Specifications are subject to change without notice.
Toll Free: 877.817.6028 | Fax: 415.592.1596 | www.DiodeLED.com | info@DiodeLED.com
COMPLIANCE & REGULATORY APPROVALS

Safety
• UL Listed 48, Electrical Signs. CSA C22.2 No. 207 Certified for United States and Canada. E497870

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.
• Environment: Indoor / damp location
• UV Resistance: None

COMPATIBLE DRIVERS
Additional information on compatible Drivers can be found on page 4-7 or on the Diode LED web site at: www.DiodeLED.com.

MECHANICAL DIAGRAMS

Width
(Custom dimension options on page 3)

[Diagram showing dimensions]

CONNECTIONS
• Expedited: Side exit only
• Standard: Side or back exit
• Wire gauge: 24 AWG
• Female DC White wire length: 96” max.
• Female DC Black wire length: 12” max.

One side lit panel wire entry options

Two sides lit panel wire entry options

1. Do not install in environment where LED light panels are exposed to direct sunlight as damage to the acrylic will occur.
2. Wire leads and accessories are not rated for in-wall installation unless otherwise noted.
EXPEDITED SERVICE PANELS

- White/Silver frame
- Panels up to 23 x 46.5 in.
- Static White CCTs
- Diffused Panels

ONE SIDE LIT
From (2.5 x 2.5) to (16 x 46.5) in. (H x L)

**MIN.**
- 2.5 in.
- 2.5 in.

**MAX.**
- 46.5 in.

TWO SIDES LIT
From (4.5 x 4.5) to (23 x 46.5) in. (H x L)

**MIN.**
- 4.5 in.
- 4.5 in.

**MAX.**
- 23 in.

STANDARD SERVICE PANELS

- White/Silver frame
- Panels up to 54 x 94 in.
- One side lit panel with any side less than 2.5 in.
- Two sides lit panel with any side less than 4.5 in.
- RGB/RGBW/Tunable White CCTs
- Specialty CCTs
- Diffused panels
- Non-diffused panels
- Snap Frames
- Four sides lit panels

ONE SIDE LIT
From (2.5 x 46.6) to (16 x 94) in. (H x L)

**MIN.**
- 1 in.
- 46.6 in.

**MAX.**
- 16 in.
- 94 in.

TWO SIDES LIT
From (16.1 x 46.6) to (54 x 94) in. (H x L)

**MIN.**
- 16.1 in.

**MAX.**
- 54 in.

3. It is recommended that any panel with its height exceeding 16" should be double side lit.
4. If Panel is a square and exceeding 48" it is recommended to have all four sides lit.
COMPATIBLE PRODUCTS

LED DRIVERS Cont. (Required)

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: https://www.diodeled.com/products/led-power-supplies.html

PLUG-IN ADAPTERS

Plug-In Adapters allow for a simple installation by plugging into a standard 120-Volt receptacle. Compatible with inline Switches and Dimmers.

<table>
<thead>
<tr>
<th>Voltage &amp; Power Output</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DI</strong></td>
</tr>
<tr>
<td><strong>PA-24V96W-CL2-</strong>*</td>
</tr>
<tr>
<td><strong>PA-24V96W-CL2-</strong>* - 24V 96W</td>
</tr>
</tbody>
</table>

**SKU**

- **PA-24V96W-CL2-*** - 4.70 in. 2.00 in. 1.25 in.

*Available in Black or White. Add a B for Black or W for White.*

COMMERCIAL GRADE PLUG-IN DRIVER

Plug-In Adapters allow for a simple installation by plugging into a standard 120-Volt receptacle. Compatible with inline Switches and Dimmers.

<table>
<thead>
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</thead>
<tbody>
<tr>
<td><strong>DI</strong></td>
</tr>
<tr>
<td><strong>CV-24V90W-OWA</strong></td>
</tr>
<tr>
<td><strong>CV-24V90W-OWA</strong> - 24V 90W</td>
</tr>
</tbody>
</table>

**SKU**

- **CV-24V90W-OWA** - 6.75 in. 2.50 in. 1.50 in.
**LED DRIVERS (Required)**
The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: [https://www.diodeled.com/products/led-power-supplies.html](https://www.diodeled.com/products/led-power-supplies.html)

**SWITCHEX® DRIVER + DIMMER SWITCH**
SWITCHEX combines an LED driver and LED dimmer switch into a single integrated unit. Fits into standard switch boxes.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-24V-SE-60W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
<tr>
<td>DI-24V-SE-100W</td>
<td>1.40 in.</td>
<td>2.10 in.</td>
<td>4.10 in.</td>
</tr>
</tbody>
</table>

Fits in Standard Switch Box

**LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V CONSTANT VOLTAGE LED DRIVER**
Use Constant Voltage Drivers to power your lighting system. Compatible with Standard 120VAC On/Off Switches, REIGN® Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

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<th>H - HEIGHT</th>
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</thead>
<tbody>
<tr>
<td>DI-0970-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V60W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-CV-MW24V90W-277-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-0954-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>

**LO-PRO® JUNCTION BOX & DRIVER COMBO - 24V COMMERCIAL GRADE 0-10V LED DIMMABLE DRIVER**
Compatible with 0-10V controls and dimming systems.

<table>
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<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-MW24V60W-0-10V-LPS</td>
<td>11.25 in.</td>
<td>3.75 in.</td>
<td>1.90 in.</td>
</tr>
<tr>
<td>DI-DM-MW24V90W-0-10V-LPL</td>
<td>13.5 in.</td>
<td>4.5 in.</td>
<td>2.37 in.</td>
</tr>
</tbody>
</table>
### LED DRIVERS CONT. (Required)

The following Listed LED Drivers are recommended for compatibility and to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED’s product page at: [https://www.diodeled.com/products/led-power-supplies.html](https://www.diodeled.com/products/led-power-supplies.html)

#### OMNIDRIVE® 2 ELECTRONIC DIMMABLE LED DRIVER

OMNIDRIVE 2 features a zero minimum load and 100-5% dimming range. Compatible with Forward Phase and Reverse Phase Dimmers. Please see Diode LED’s Compatibility List at: [https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf](https://www.diodeled.com/custom/download/productFile/filename/DI-OD2-Compatibility%20List.pdf)

<table>
<thead>
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<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-OD2-24V24W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V60W</td>
<td>13.75 in.</td>
<td>3.00 in.</td>
<td>1.60 in.</td>
</tr>
<tr>
<td>DI-OD2-24V96W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V120W</td>
<td>15.00 in.</td>
<td>3.10 in.</td>
<td>2.40 in.</td>
</tr>
<tr>
<td>DI-OD2-24V200W</td>
<td>16.10 in.</td>
<td>3.40 in.</td>
<td>2.40 in.</td>
</tr>
</tbody>
</table>

#### Lutron. Hi-lume 1% LED DIMMABLE DRIVER

Hi-lume 1% LED Driver has a minimum load of 5W and dims from 100-1%.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V40W-L3D</td>
<td>4.89 in.</td>
<td>4.00 in.</td>
<td>2.62 in.</td>
</tr>
<tr>
<td>DI-DM-24V40W-LTE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Lutron. Hi-lume Premier 0.1% LED DIMMABLE DRIVER

Hi-Lume Premier 0.1% LED Driver has a minimum load of 5W and dims from 100-0.1%.

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DI-DM-24V96W-L3D</td>
<td>5.50 in.</td>
<td>2.20 in.</td>
<td>10.50 in.</td>
</tr>
<tr>
<td>DI-DM-24V96W-LTE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**LED DRIVERS (Required)**

The following Listed LED Drivers are recommended to meet NEC code when installed according to specifications. For additional LED Driver options see Diode LED's product page at: [https://www.diodeled.com/products/led-power-supplies.html](https://www.diodeled.com/products/led-power-supplies.html)

**VLM SERIES CONSTANT VOLTAGE DRIVER**

Use Constant Voltage Drivers to power your low voltage tape light. Compatible with Standard 120VAC On/Off Switches, REIGN® 12-24V Low Voltage Dimmers, TOUCHDIAL™ Control System, DMX Decoders, and PWM Controls.

<table>
<thead>
<tr>
<th>VLM Series Voltage Driver</th>
<th>Wattage</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLM60W-24</td>
<td>60W</td>
<td>24</td>
</tr>
<tr>
<td>VLM100W-24</td>
<td>100W</td>
<td>24</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SKU</th>
<th>L - LENGTH</th>
<th>W - WIDTH</th>
<th>H - HEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>VLM60W-24</td>
<td>5.1 in.</td>
<td>.75 in.</td>
<td>.77 in.</td>
</tr>
<tr>
<td>VLM100W-24</td>
<td>5.38 in.</td>
<td>1 in.</td>
<td>.77 in.</td>
</tr>
</tbody>
</table>
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 install with a Class 2 DC Constant Voltage LED driver. This product has not been evaluated for use when connected to an LED driver that does not comply with Class 2 voltage and energy limited supplies.
4. Only use copper wiring. Use wires rated for at least 176°F (80°C) and certified for use with external connection of electrical equipment.
5. Each maximum run requires a dedicated power feed from the driver. Do not extend beyond the recommended maximum run length.
6. 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.
7. 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.
8. Do not install in environment where LED chips are exposed to direct sunlight as damage to the phosphor will occur.
9. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
10. 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.
11. Do not modify product beyond instructions or warranty will be void.
12. Tape light must be handled with care. Excessive handling, bending, and pressure may damage the product, voiding the warranty.
13. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
14. 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
This product has a five (5) year limited warranty from the date of shipment. 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 an 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 purchaser 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.