

LIGHT GUIDE PANEL

Built to order in Reno, Nevada, Diode LED Light Guide Panels provide even, diffused light for backlighting and displays.

Date _____

Project Notes _____



FEATURES

- Most popular sign lighting solution
- Customizable to your specifications
- Provides bright, even lighting
- Diffused, no hot spots
- Great for: Display lighting, elevator signage, back-lit counter tops, walls, cosmetics, product & retail displays, wall art
- Custom shapes available upon request



24V ORDERING CODES

Light Guide Panel

DI	Voltage	Model	CCT		Dimensions	Diffusion	Edges Lit	Frame Color
DI	12V	LGP4	24 (2400K)	65 (6500K)	L x W (in.)	D (Diffused)	1	SL (Silver)
	24V		27 (2700K)	TW** (Tunable White)	CSTM (Custom Shape)	ND (Non-Diffused)	2	WH (White)
			30 (3000K)	RGB* (Color Changing)		4	FMLS (Frameless)	
			35 (3500K)	WD** (Warm Dim)				
			40 (4000K)	RGBW** (Color Changing with White)				
			50 (5000K)					

*: 24V only, 6mm Acrylic only
 **: 24V & Abroad only

Lead Wire

Color	Length	Connection	Exit	Location
BL (Black)	L (in.)	BW (Bare Lead)	SD (Side)	[1-8] (Refer to Panel Options)
WH (White)		DC (Female DC)	BK (Back)	

PHOTOMETRICS

PANEL SIZE RANGE EXAMPLES

	12 x 12 in.		24 x 24 in.		24 x 48 in.		48 x 48 in.		
	Lumens	Wattage	Lumens	Wattage	Lumens	Wattage	Lumens	Wattage	
Edges Lit	1	232	4	528	7	1107	13	-	-
	2	379	6	1019	13	1911	24	-	-
	4	733	12	1749	23	2676	31	6200	38



ACRYLIC

TYPE	MANUFACTURING OPTIONS	ACRYLIC THICKNESS	TOTAL THICKNESS	NOTES
Static White	US/Abroad	4mm / 6mm	7mm / 12mm	Static White Acrylic thickness adjusted to accommodate dimensions of LGP.
Tunable White / RGB	US/Abroad	6mm	12mm	
RGBW / Warm Dim	Abroad	8mm	11mm	
Frameless	Abroad	6mm	6.5mm	Maximum Dimensions: 47 x 94 in. Custom Shapes

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5
Year
Warranty



12
VDC

24
VDC

MADE IN USA (with foreign parts)

OPTIONS

- White/Silver Frame
- Bare lead or DC Barrel plug connection with black or white wire up to 20 AWG
- Panels up to 47.75 x 47.75 in. - 4mm Acrylic Construction
- Panels up to 95.75 x 47.75 in. - 6mm Acrylic Construction
- (4mm-6mm acrylic) Static White
- (6mm acrylic) RGB & Tunable White
- 80+ CRI
- Diffused panels
- Clear Panels



DESIGNED IN USA (manufactured abroad)

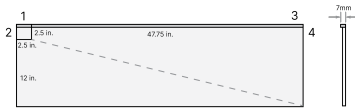
OPTIONS

- White/Silver Frame
- Panels up to 54 x 94 in.
- One edge lit panel with any side less than 2.5 in.
- Two edge lit panel with any side less than 4.5 in.
- (4mm acrylic) RGB & Tunable White
- (8mm acrylic) RGBW & Warm Dim
- Specialty CCTs
- 80+ or 90+ CRI
- Diffused/Clear panels

ONE EDGE LIT OPTIONS

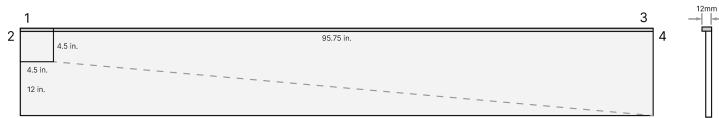
(2.5 x 2.5) to (12 x 47.75) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4



(4.5 x 4.5) to (12 x 95.75) in. (W x L) (6mm acrylic)

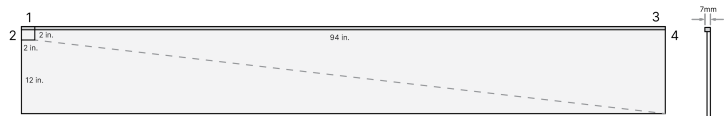
Wire Entry Options: 1, 2, 3, 4



ONE EDGE LIT OPTIONS

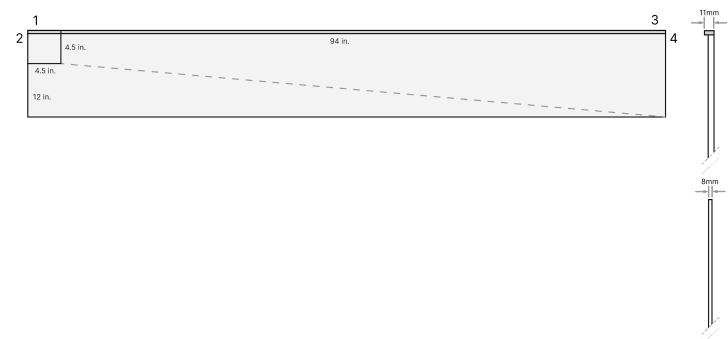
(2 x 2) to (12 x 94) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4



(2 x 2) to (12 x 94) in. (W x L) (8mm acrylic) RGBW / Warm Dim

Wire Entry Options: 1, 2, 3, 4



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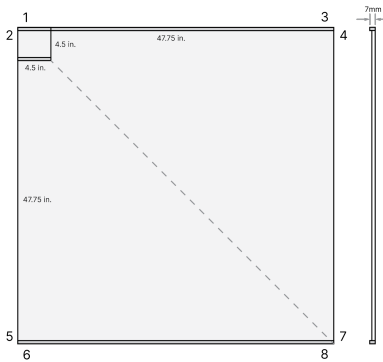
24
VDC

MADE IN USA (with foreign parts)

TWO EDGE LIT OPTIONS

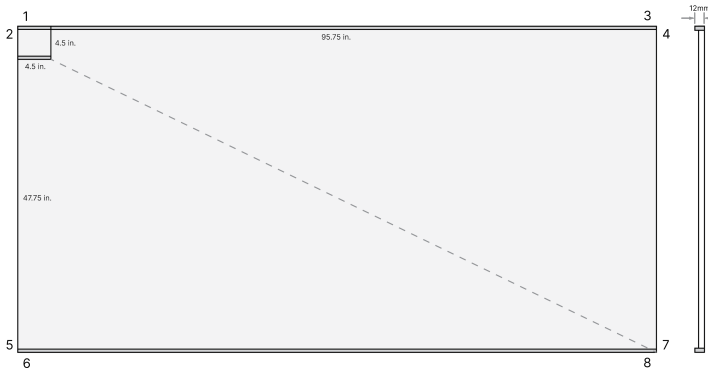
(4.5 × 4.5) to (47.75 × 47.75) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8



(4.5 × 4.5) to (47.75 × 95.75) in. (W x L) (6mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8

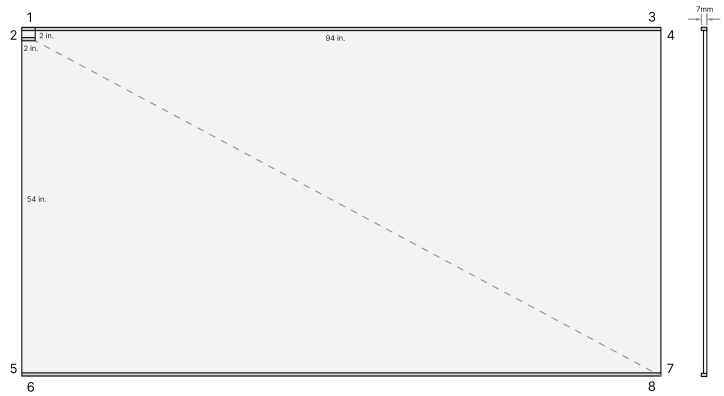


DESIGNED IN USA (manufactured abroad)

TWO EDGE LIT OPTIONS

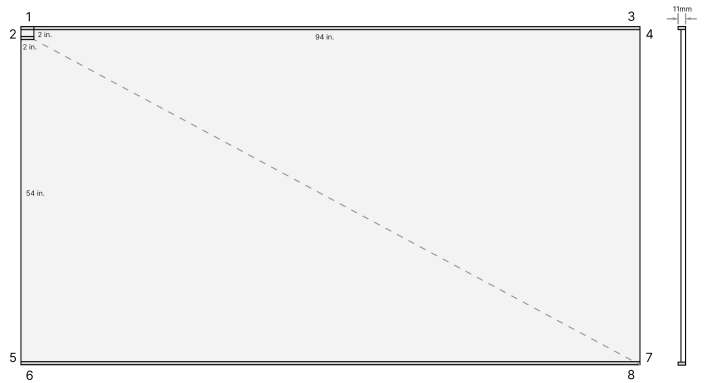
(2 × 2) to (54 × 94) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8

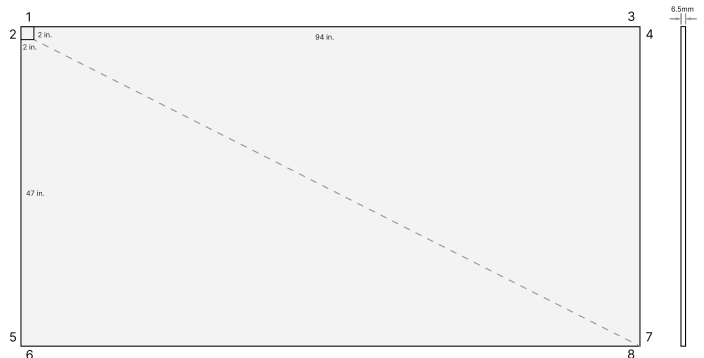


(2 × 2) to (54 × 94) in. (W x L) (8mm acrylic) RGBW / Warm Dim

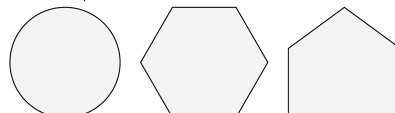
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Frameless



Custom Shapes Available



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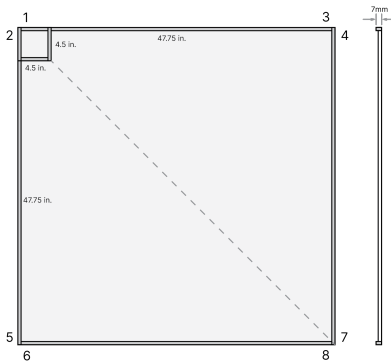
24
VDC

MADE IN USA (with foreign parts)

FOUR EDGE LIT OPTIONS

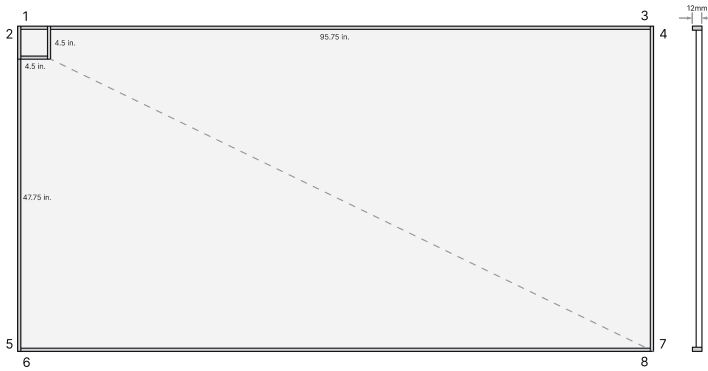
(4.5 × 4.5) to (47.75 × 47.75) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8



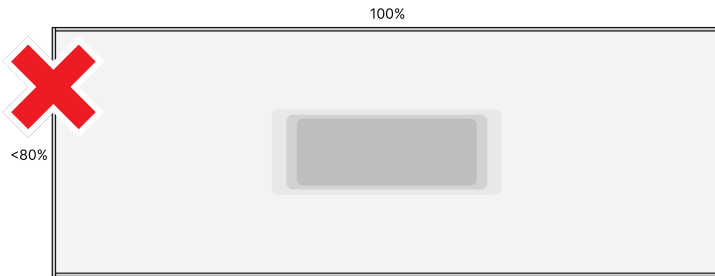
(4.5 × 4.5) to (47.75 × 95.75) in. (W x L) (6mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8



4 EDGE LGP NOTE

To avoid dark spots, ensure the Width of LGP is at least 80% of the value of the Length.

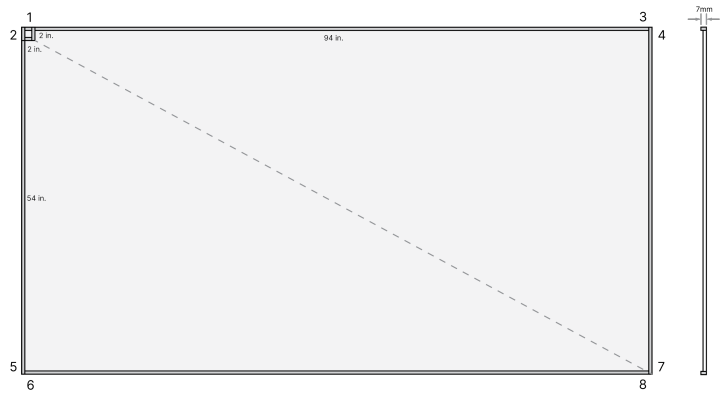


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FOUR EDGE LIT OPTIONS

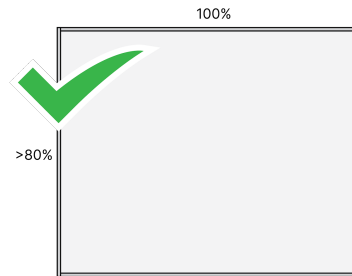
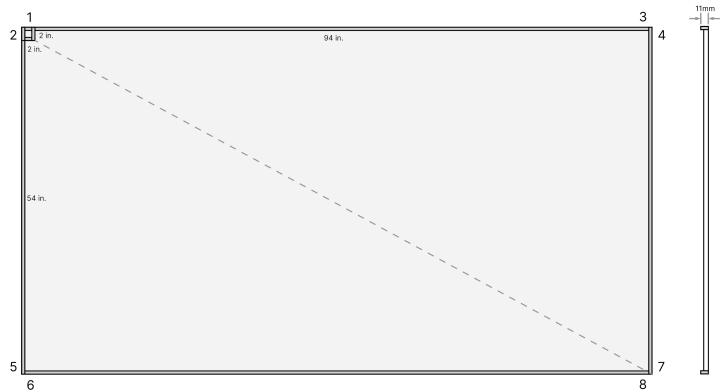
(2 × 2) to (54 × 94) in. (W x L) (4mm acrylic)

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8



(2 × 2) to (54 × 94) in. (W x L) (8mm acrylic) RGBW / Warm Dim

Wire Entry Options: 1, 2, 3, 4, 5, 6, 7, 8



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RECOMMENDED DRIVERS

SKU	INPUT VOLTAGE / FREQUENCY	OUTPUT VOLTAGE	MAXIMUM LOAD	MINIMUM LOAD	CLASS 2	DIMMABLE	LENGTH	WIDTH	HEIGHT
OMNIDRIVE X Versatile driver for most high-performance dimming on ELV, TRIAC, and 0-10V systems. https://www.diodeled.com/custom/download/productFile/filename/omnidrive-x-specification-sheet.pdf Contains: • Additional Models • Derating Curves • 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.
DI-ODX-24V200W-J	120-277V	24V	200W	No Minimum Load	No	Yes	10.24 in.	4.13 in.	1.77 in.
SWITCHEX+ R1 Revolutionize your low-voltage LED lighting setup with SWITCHEX+ R1, a patented innovation that seamlessly merges a low-voltage power supply with a dimmer switch into one compact solution. https://www.diodeled.com/custom/download/productFile/filename/DI-SXR1-Specification%20Sheet.pdf Contains: • Additional Models • Derating Curves • Additional Features • System Diagrams									
DI-SXR1-12V40W	120VAC 50/60Hz	12V	40W	Recommended: 5% Minimum	Yes	Yes, auto-trim optimized	1.75 in.	2.125 in.	4.125 in.
DI-SXR1-12V60W	120VAC 50/60Hz	12V	60W	Recommended: 5% Minimum	Yes	Yes, auto-trim optimized	1.75 in.	2.125 in.	4.125 in.
DI-SXR1-24V60W	120VAC 50/60Hz	24V	60W	Recommended: 5% Minimum	Yes	Yes, auto-trim optimized	1.75 in.	2.125 in.	4.125 in.
DI-SXR1-24V96W	120VAC 50/60Hz	24V	96W	Recommended: 5% Minimum	Yes	Yes, auto-trim optimized	1.75 in.	2.125 in.	4.125 in.
VLM Compact driver for on/off, PWM dimming, and color-changing applications. 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									
VLM60W-12	120 / 277VAC 47 - 63Hz	12V	60W	No Minimum Load	Yes	PWM	5.1 in.	0.75 in.	0.77 in.
VLM100W-12	120 / 277VAC 47 - 63Hz	12V	100W	No Minimum Load	Yes	PWM	5.38 in.	1 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.
VLM100W-24	120 / 277VAC 47 - 63Hz	24V	100W	No Minimum Load	Yes	PWM	5.38 in.	1 in.	0.77 in.
COMMERCIAL GRADE ADAPTER (Plug In) Driver for on/off, PWM dimming, and color-changing applications. Contains: • Additional Models • Derating Curves • Additional Features • System Diagrams									
DI-PA-12V60W-CL2-B-CG	100-240V, 50-60 Hz	12V	60W	No Minimum Load	Yes	PWM	4.6 in.	2 in.	1.25 in.
DI-PA-24V96W-CL2-B-CG	100-240V, 50-60 Hz	24V	96W	No Minimum Load	Yes	PWM	5.5 in.	2.4 in.	1.3 in.

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CERTIFICATIONS

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

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-cutttable.
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 LED chips are exposed to direct sunlight as damage to the phosphor will occur.
7. Do not install in environment where excessive heat may exist (ex. close proximity to fireplace, etc.) See Ambient Temperature ratings
8. Do not modify product beyond instructions or warranty will be void.
9. Actual color may vary from what is pictured on this sheet and other print materials due to the limitations of photographic processes.
10. 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/ 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.

- Lumen value measured in accordance to IES LM-80-08. LED chips have a luminous flux range with a tolerance of +/- 5%.
- 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.