



Project		Location	
Contact		Date	
Part#		Fixture	

Essential Panel

Light Guide Panel









Description

The Essential Panel is crafted for affordable, smooth and uniform light, perfect for backlighting various surfaces. Manufactured with the same patented construction as our renowned LumiSheet™, it offers exceptional quality at a cost-effective price point. Discover how our it can enhance your space economically without compromising on quality.

Applications

- Retail backlighting
- Backlit graphics
- Backlit stone
- Events/Exhibitions



Manufactured in North America



Custom Size & Shape



Multi Panel Tiling for Large spaces

90+

Impressive CRI Of 90+



Wide Range Of Color Temperatures



Various Mounting Options



Shelf / Fixture Mounted

Key Features

- Lower cost than OmniSheet™
- Custom size and thickness (4 mm or 6 mm) available, and can be cut to any shape
- Wide range of color temperature options
- Same brightness with strong light distribution and is tested at 90+ CRI

Specifications

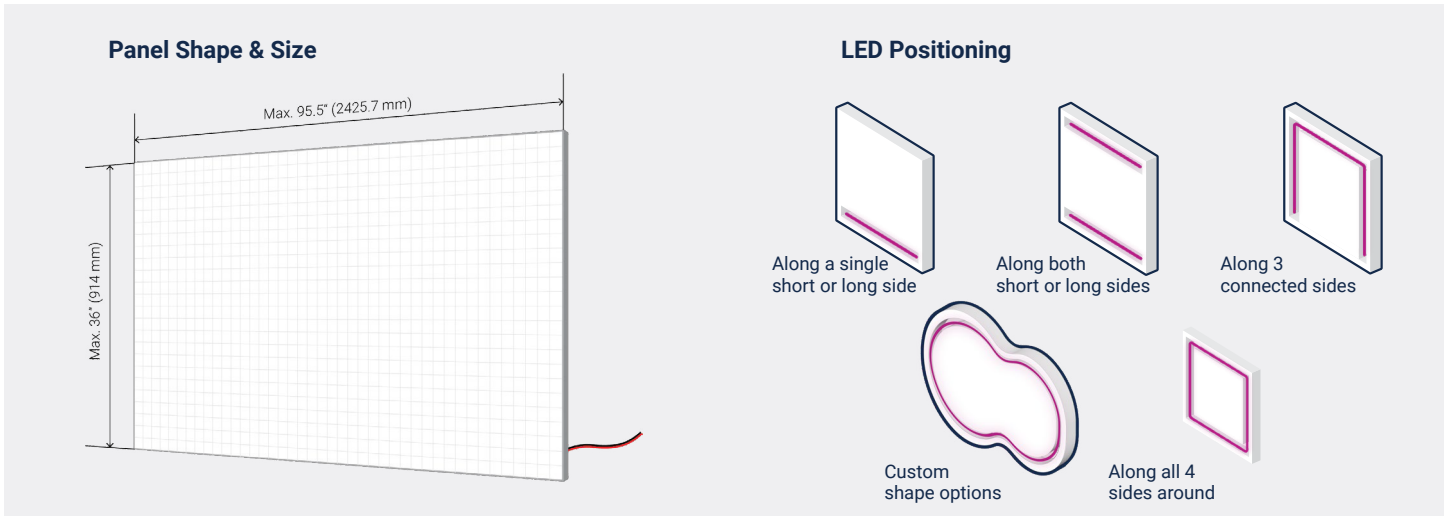
Performance	Essential Edge Lit Panel (4 mm)	Essential Embedded Panel (6 mm)
Part Number	#122416	#122614
CRI	≥90	
Color Temperature *	3500K, 4100K, 5300K	
Surface Brightness**	≥ 3,200 lx	
Lumen Maintenance	L70 @ ~ 54,000 h	
Light Engine	OmniLine™ Essential	
Illumination	SFI / DFI	
Operating Temp.	-30° C (-22° F) ~ +40° C (+104° F)	
IP Rating	IP22	
Title 24	Title 24 Compliant	
Fire Rating	UL94V-0	
Environment	Dry location, Indoor use only	
UL / ETL	UL Listed (E346146)	
Warranty	3 Year	
Mechanical		
Thickness	4 mm (5/32")	6 mm (1/4")
Maximum Size	36" x 96" 914 mm x 2997 mm	
Minimum Size	2" x 2" 50 mm x 50 mm	
Weight	1.26 lb /sqft (6.4 kg/m ²)	1.46 lb /sqft (7.15 kg /m ²)
Diffuser Options	1.5 mm Clear, Milky White or Printed Acrylic 3.0 mm Clear, Milky White or Printed Acrylic	
Mounting Options	Pre-drilled holes, Z-Clips, Standoffs	
Electrical		
Input Voltage	12V DC / 24V DC	
Power Consumption	Standard 3.0W /ft	
Wire size	20 AWG, 2 wire	
Wiring Options	Each panel must have direct connection to power supply. Max wire length is 20 ft (6 m) to avoid voltage drop Do not wire panels in series!	
Connector Options	Standard 5' or optional 10' wire with 2.1/5.5mm barrel plug or bare leads	

* Other colors available on request with longer lead times.

** Measurements done using 2' x 2' 2-side lit panel configuration at 5300k

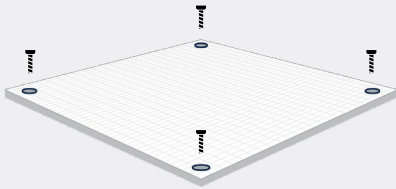
Customization

Panel Customization Options



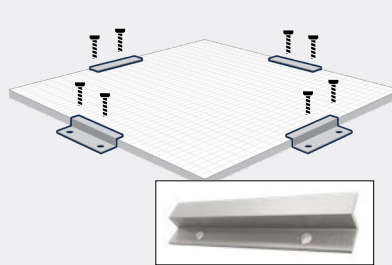
Mounting Options

Option 1: Pre-drilled holes



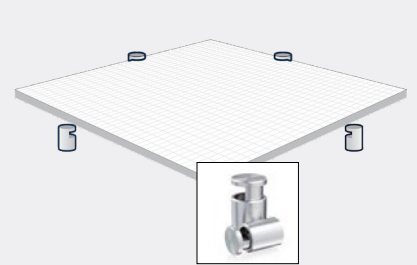
Holes must be drilled by Omnify during the manufacturing process according to specification drawings. Screws not included.

Option 2: Z-Clips



Screw z-clips to the back of the frame and to the wall. Request Z-clips if required.

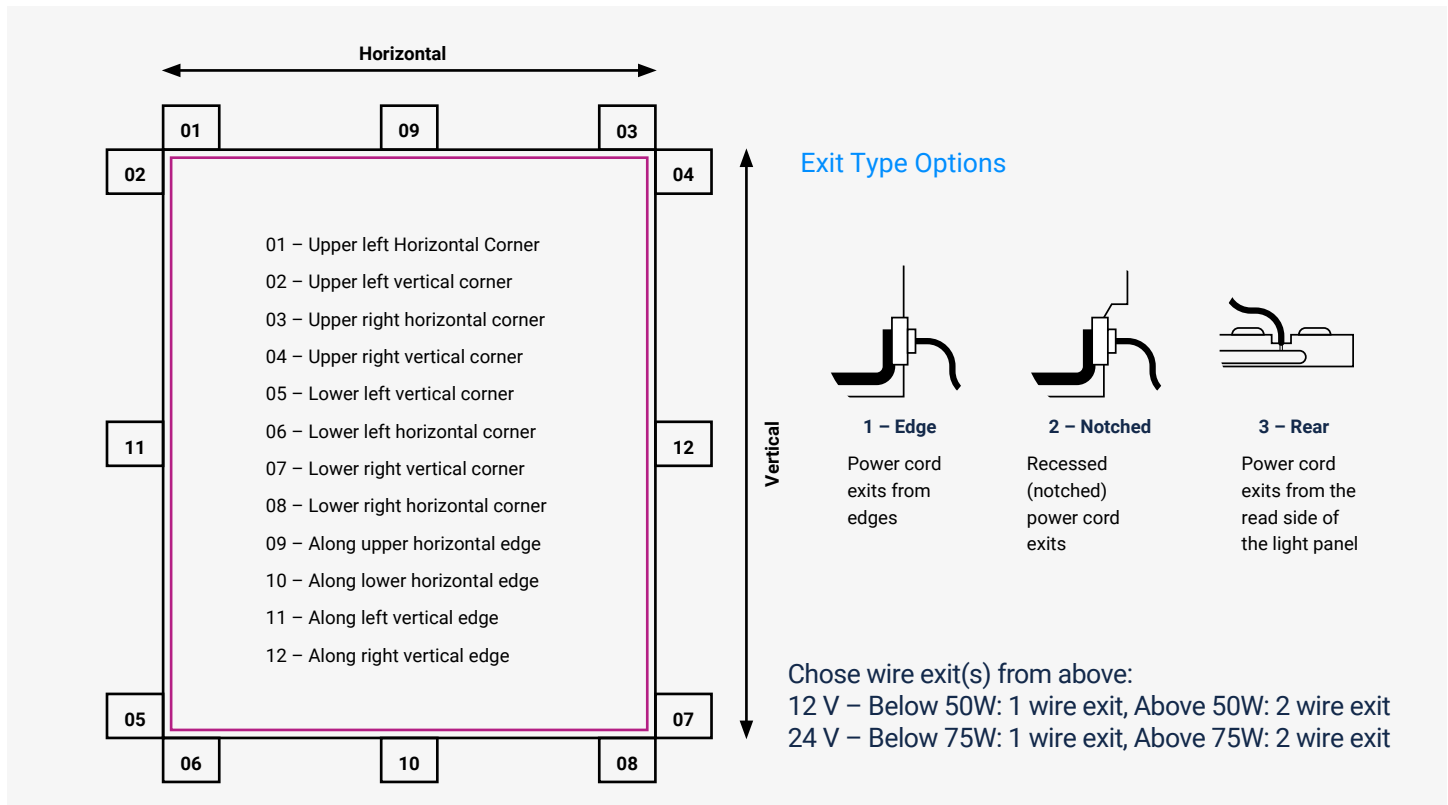
Option 3: Standoffs



Source either 4 mm (5/32") or 6 mm (1/4") clips to suit the depths of your Light Panel. Affix the panel to the surface as you would a mirror. Edge clips are sold separately.

Customization

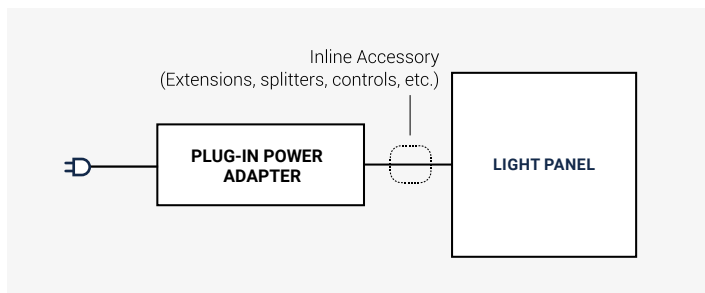
Wire Exit Locations



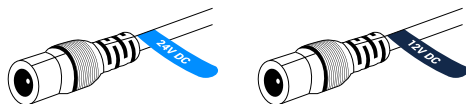
Wiring Options

Determine your system components, including a power adaptor, as well as optional dimmer and controller. Use only UL certified power adaptors with the power output that coordinates with your input voltage. Do not apply 24V DC to 12V DC panels, as within seconds the result may be burned LEDs or fire. Look for your voltage tags at the end of the power cord.

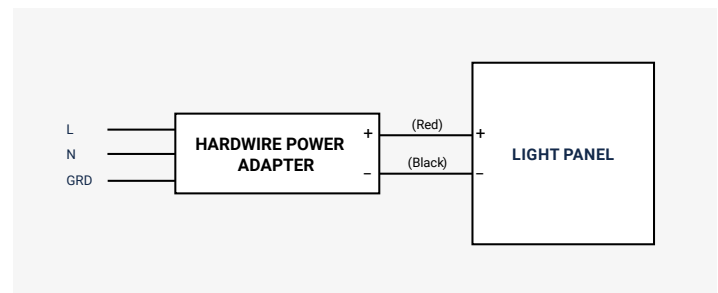
Using a Plug-in Power Adaptor



Use a plug-in adaptor to connect the Light Guided Panel to your power source via DC Jack.



Wiring with Hardwire Power Adaptors



1. Turn off power to your system at the main breaker
2. Install your system components. Refer fo wiring guidelines for each component to build your system
3. Check connections and turn on power at the main breaker

Configurator

Essential Embedded Panels

Part #	Dimensions	Shape	Illumination	LED Location	Color Temperature	Voltage
122416 – 4 mm	x – Horizontal (inch)	1 – Rectangular	1 – Single face	1 – 1 long edge	350 – 3500K	12 – 12V DC
122614 – 6 mm	y – Vertical (inch)	2 – Custom	2 – Double face	2 – 2 long edge 3 – 1 short edge 4 – 2 short edge 5 – all 4 edges 6 – Custom	410 – 4100K 530 – 5300K	24 – 24V DC

Wattage/ft	Exit Location	Exit Type	Connectors	Diffuser	Mounting
3.0 – Standard (3.0W)	01 – Upper left corner (H)	1 – Edges	1 – Black 5' with barrel plug	1 – 0.125 mm White film	1 – Pre-Drilled Holes
	02 – Upper left corner (V)	2 – Notched	2 – White 5' with barrel plug	2 – 0.1 mm White film	2 – Z-Clips
	03 – Upper right corner (H)	3 – Rear	3 – Black 10' with barrel plug	3 – 1.5 mm Milk White	3 – Standoffs
	04 – Upper right corner (V)		4 – White 10' with barrel plug	4 – 3.0 mm Milk White (1/8")	4 – N/A
	05 – Lower left corner (V)		5 – Black 5' with bare leads	5 – 3 mm Clear Acrylic	
	06 – Lower left corner (H)		6 – White 5' with bare leads	6 – 8 mm Clear Acrylic	
	07 – Lower right corner (V)		7 – Black 10' with bare leads	7 – 8 mm Sign White (3/8")	
	08 – Lower right corner (H)		8 – White 10' with bare leads	8 – N/A	
	09 – Along upper edge (H)				
	10 – Along lower edge (H)				
	11 – Along left edge (V)				
	12 – Along right edge (V)				

Orders can be placed by choosing all the options and configuration parameters, which generates an order code. Put your order code together by putting the codes from the above tables you would like to have in the same order from above into each cell below.

Order Code Example

122614-11x24-1-1-1-2-350-12-3.0-02-2-1-1-2

Breakdown: Essential Embedded Panel 6 mm thick – sized 11" horizontal by 24" vertical – Single Face Illumination – LED located along 2 long edges – Color Temperature 3500K Static White – Voltage is 12V DC – Wattage is low 3.0W/ft – Exit location is at the upper left Vertical corner – Exit type is notched – Connector is 5' long, white cable with barrel plug – Diffuser is 0.125 mm white film – Mounting is with Z-clips.