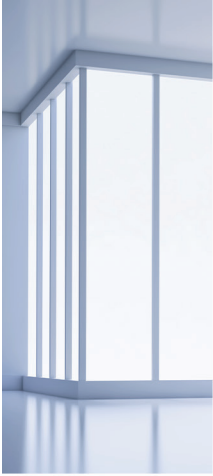




6mm / 8mm Embedded
LED dimmable light panel



LumiSheet Light Guided Panel

With state-of-the-art technology and embedded design, LumiSheet provides the most consistent light output and true-to-life color rendering.

Key Benefits



Fully Custom



High CRI +95



Dimmable LEDs

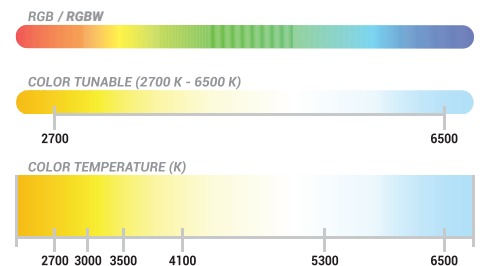
Key Product Details



- Dimmable LEDs
- Embedded LEDs
- Integrated Heat Sink

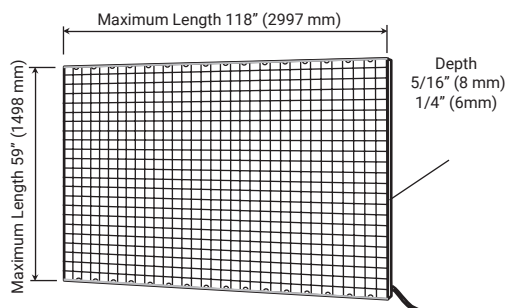
Our patented design offers the brightest, most evenly lit and durable LED light panel on the market, so you know you're getting the best.

Light Temperature



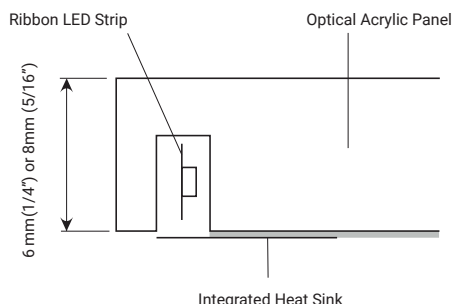
OVERVIEW

FRONT VIEW



Power lead:
Power cord location is customizable

PROFILE VIEW



SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Part Number	6 mm - 121614 8 mm - 121814 RGB 8mm - 121815 RGBW 8mm - 121817 Tunable 8mm 121812
Series	LLP
Chip	OmniChip
CRI	≥ 95
Color Temperature	2700 K • 3000 K • 3500 K • 4100 K • 5300 K • 6500 K • Tunable (2700K-6500K) • RGB • RGBW (3000K / 4100K)
Illumination	Single Face (SFI) • Double Face (DFI)
Operating Temperature	-30 °C (-22 °F) ~ +40 °C (+104 °F)
Environment	Dry / Damp location only (indoor)
Thickness	5/16" (8 mm) & 1/4" (6 mm) • Standard, Tunable (2700K-6500K), RGB 5/16" (8 mm), RGBW 5/16" (8 mm)
Minimum Size	2" (50 mm) L x 2" (50 mm) W
Maximum Size	59" (1498 mm) W x 118" (2997 mm) L
Weight	6mm 1.46lbs / sq ft (7.15 kg / sq m) • 8mm 1.95 lbs / sq ft (9.54 kg / sq m)

ELECTRICAL SPECIFICATIONS

Input Voltage	12V DC • 24V DC
Power Consumption	2.4 W/ft (Low-Wattage Option) • 4.4 W/ft (Standard) • 8.0 W/ft Max. (Tunable) 5.5 W/ft (Using Omnify Smart CCT Control) (Tunable) • 4.4 W/ft Max. (RGB) • 4.9 W/ft Max. (RGBW)
Wire Size	20 AWG 2 wire (Standard) • 22 AWG 3 wire (Tunable) • 22 AWG 4 wire (RGB) • 22 AWG 5 wire (RGBW)
Wiring	Each panel must have direct connection to power supply. Do not wire panels in series. Maximum wire length 20 ft (6 m) to avoid voltage drop
Connector	Standard 5' (1500 mm), optional 10' (3000 mm) • 2.1 / 5.5 mm barrel plug (Standard) • Bare wire (Tunable, RGB & RGBW)
Certification	UL listed (E346146) • UL recognized component (E362079)

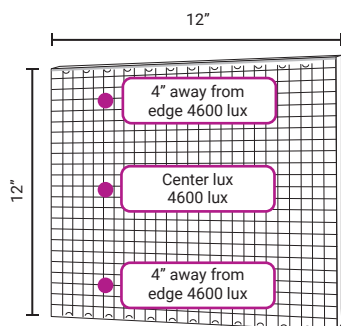
LED TESTING DATA

COLOR RENDERING INDEX • CRI: 95

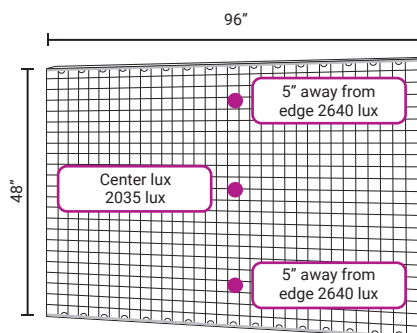
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98	96	92	94	99	93	95	97	95	91	93	82	97	95	98

TYPICAL SURFACE BRIGHTNESS MEASUREMENTS

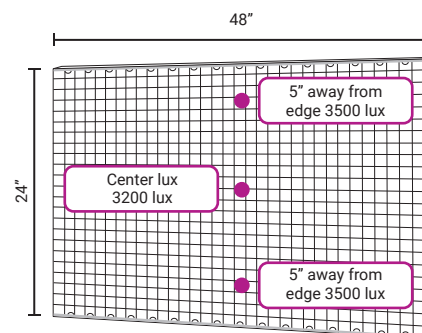
Brightness readings are for reference only. Actual reading may differ for different LEDs, LGPs or even different meters.



12" (304.8 mm) x 12" (304.8 mm) LumiSheet with 5300 K LEDs lit along 2 long edges (8 W)



48" (1219.2 mm) x 96" (2438.4 mm) LumiSheet with 5300 K LEDs lit along 2 long edges (60 W)

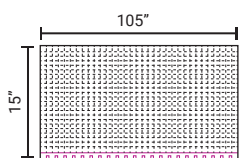


24" (609.6 mm) x 48" (1219.2 mm) LumiSheet with 5300 K LEDs lit along 2 long edges (30 W)

LIGHT GUIDED PANEL SPECIFICATIONS BY SIZE

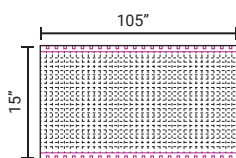
Size (inch)	Size (mm)	LED Strip	*Average Surface Brightness (Lx)	Power Consumption (W)
6 x 6	150 x 150	1 side	6,000	2.0
12 x 12	300 x 300	1 side	3,000	4.0
24 x 24	600 x 600	2 sides	3,200	15.0
36 x 36	900 x 900	2 sides	2,600	23.0
48 x 48	1200 x 1200	2 sides	2,200	30.0
48 x 96	1200 x 2400	2 sides	2,200	60.0
Ø 6	Ø 152	all around	19,000	5.8
Ø 12	Ø 300	all around	13,000	11.2
Ø 24	Ø 600	all around	5,400	24.0
Ø 36	Ø 900	all around	4,500	36.0
Ø 48	Ø 1200	all around	3,500	48.0

OPTIMAL ILLUMINATION OPTIONS FOR UNIFORMITY



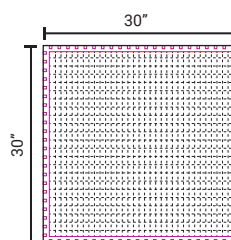
LED ON 1 SIDE

• Maximum width 15"



LED ON 2 SIDES

• Over 15" between LEDs



LED ON 4 SIDES

• Over 30" between LEDs



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MOUNTING OPTION EXAMPLES

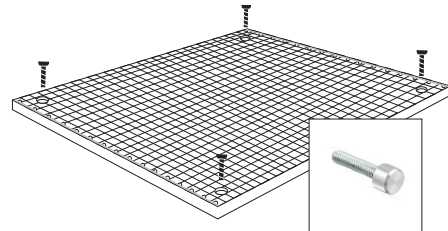
- ⚠️ **Aluminum heat sink must not be removed from the product**
- Only install in indoor environments**

Mounting hardware provided by others.

- Mount panels securely using one of these options:

OPTION 1: SCREWS WITH PRE-DRILLED HOLES

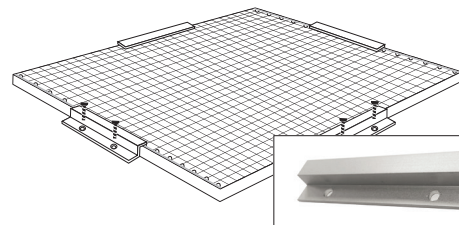
Holes must be drilled by Omnify during the manufacturing process according to specification drawings.



OPTION 1

OPTION 2: Z-CLIPS

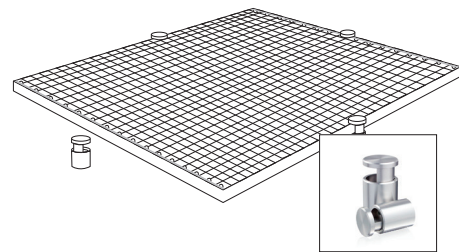
Screw z-clips to the back of the frame and to the wall.



OPTION 2

OPTION 3: EDGE CLIPS / STANDOFFS

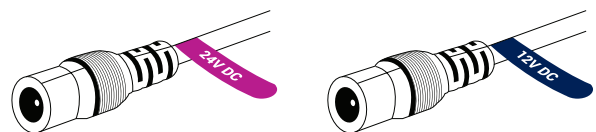
Source either 5/16" (8 mm), or 1/4" (6 mm) clips to suit the depth of your panel. Affix the panel to the surface as you would a mirror.



OPTION 3

WIRING

- 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 Light Guided Panel, as within seconds the result may be burned LEDs or fire. Look for our voltage tags at the end of the power cord.

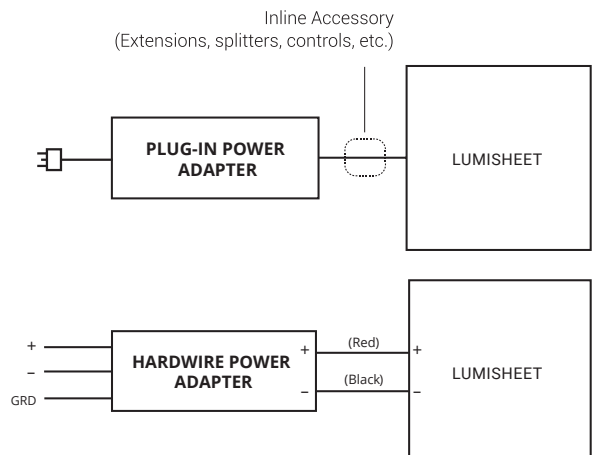


WIRING WITH PLUG-IN POWER ADAPTORS:

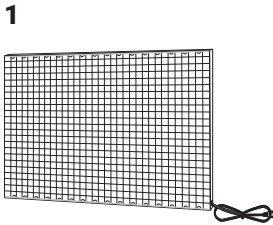
- Use a plug-in adaptor to connect the Light Guided Panel to your power source.

WIRING WITH HARDWIRE POWER ADAPTORS:

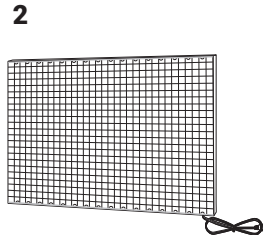
- Turn off power to your system at the main breaker;
- Install your system components. Refer to wiring guidelines for each component to build your system;
- Check connections and turn on power at the main breaker.



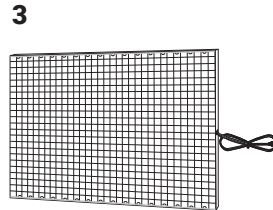
WIRE EXIT LOCATION OPTIONS



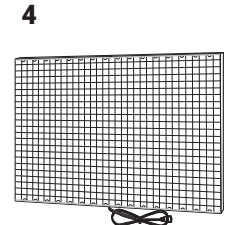
Corner Exit short side



Corner exit long side

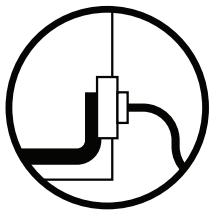


Side Exit short Side

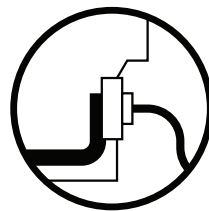


Side exit long side

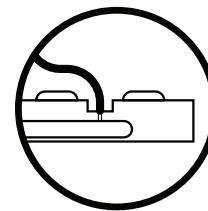
EXIT TYPE OPTIONS



1 - Edge
Power cord exits from edges



2 - Notched
Recessed (notched) power cord exits



3 - Rear
Power cord exits from the rear side of the light panel

WIRE LOCATION REFERENCE MAP

1, 3, 6, 8: Corner exit short side
2, 4, 5, 7: Corner exit long side
9, 10: Side exit short side
11, 12: Side exit long side

Choose wire exit(s) from above.

12V - wattage < 50W 1 wire
wattage > 50W 2 wires

24V - wattage < 75W 1 wire
wattage > 75W 2 wires

