

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**

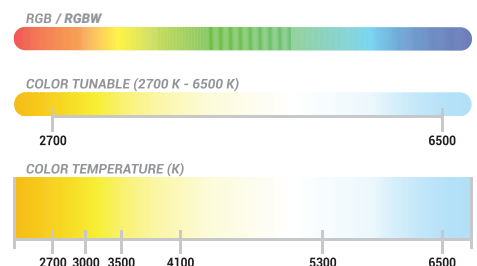
Key Product Details



- Dimmable LEDs
- Embedded LEDs
- Integrated Heat Sink

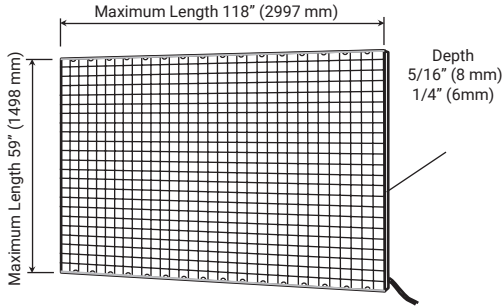
Our patented design offers the brightest, most evenly lit and durable LED light panel on the market, so you know you're getting the best.

Light Temperature



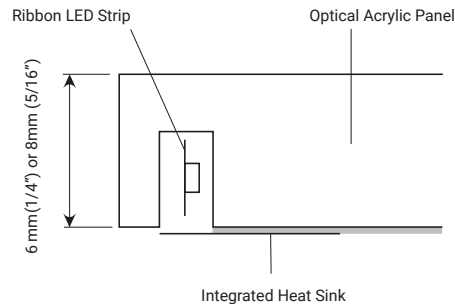
OVERVIEW

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)

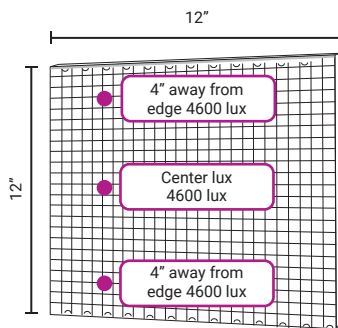
LED TESTING DATA

COLOR RENDERING INDEX • CRI: 95

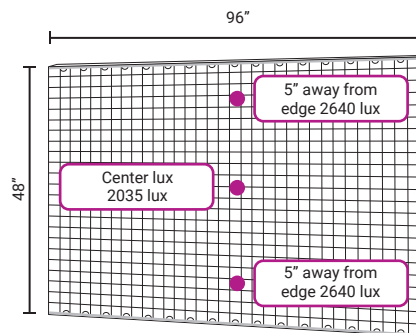
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98	96	92	94	99	93	95	97	95	91	93	82	97	95	98

TYPICAL SURFACE BRIGHTNESS MEASUREMENTS

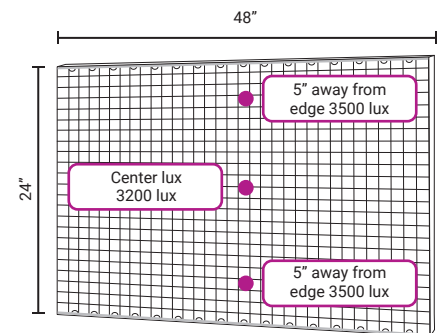
Brightness readings are for reference only. Actual reading may differ for different LEDs, LGPs or even different meters.



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)

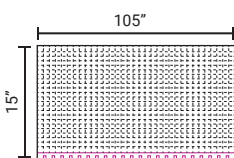


24" (609.6 mm) x 48" (1219.2 mm) LumiSheet with 5300 K LEDs lit along 2 long edges (30 W)

LIGHT GUIDED PANEL SPECIFICATIONS BY SIZE

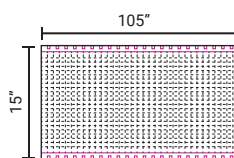
Size (inch)	Size (mm)	LED Strip	*Average Surface Brightness (Lx)	Power Consumption (W)
6 x 6	150 x 150	1 side	6,000	2.0
12 x 12	300 x 300	1 side	3,000	4.0
24 x 24	600 x 600	2 sides	3,200	15.0
36 x 36	900 x 900	2 sides	2,600	23.0
48 x 48	1200 x 1200	2 sides	2,200	30.0
48 x 96	1200 x 2400	2 sides	2,200	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



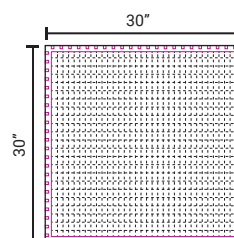
LED ON 1 SIDE

• Maximum width 15"



LED ON 2 SIDES

• Over 15" between LEDs



LED ON 4 SIDES

• Over 30" between LEDs

MOUNTING OPTIONS

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

- Mount panels securely using one of these options:

OPTION 1: SCREWS WITH PRE-DRILLED HOLES

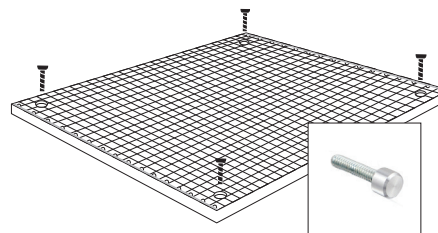
Holes must be drilled by Omnify during the manufacturing process according to specification drawings.

OPTION 2: Z-CLIPS

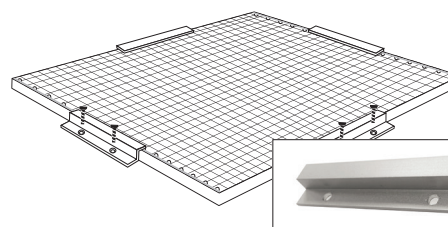
Screw z-clips to the back of the frame and to the wall. Request Z-clips if required.

OPTION 3: EDGE CLIPS / STANDOFFS

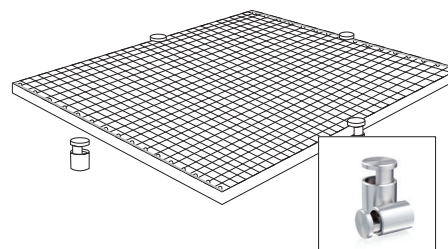
Source either 5/16" (8 mm), or 1/4" (6 mm) clips to suit the depth of your panel. Affix the panel to the surface as you would a mirror. Edge clips are sold separately.



OPTION 1



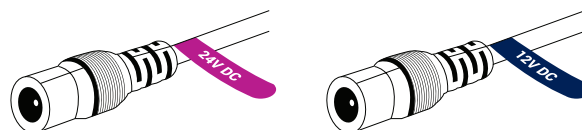
OPTION 2



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.

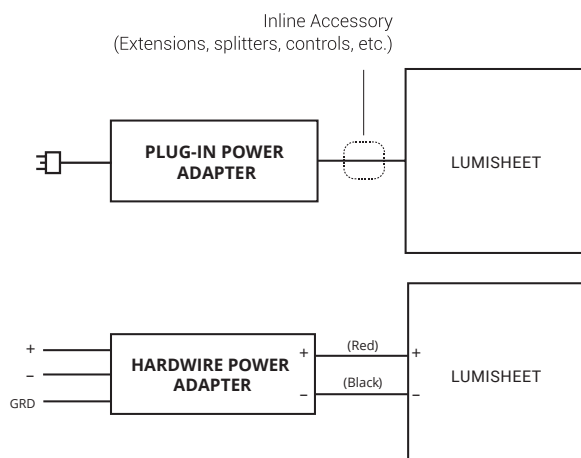


WIRING WITH PLUG-IN POWER ADAPTORS:

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

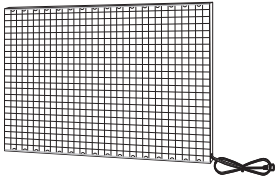
WIRING WITH HARDWIRE POWER ADAPTORS:

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



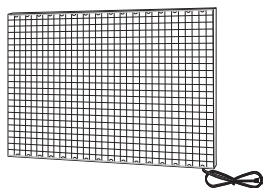
WIRE EXIT LOCATION OPTIONS

1



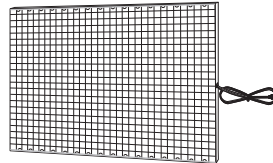
Corner Exit short side

2



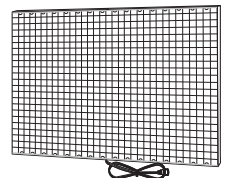
Corner exit long side

3



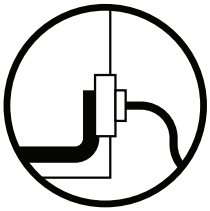
Side Exit short Side

4



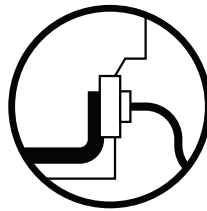
Side exit long side

EXIT TYPE OPTIONS



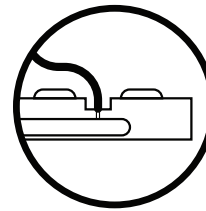
1 - Edge

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

ACCESSORIES AND OPTIONS

POWER ADAPTORS OPTIONS



Plug-in (Class 2)

950003	12V	60W
950021	24V	24W
950024	24V	90W

LED Power Driver (Class 2)

950003-12-060	12V	60W
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* Other power options available on request

Hardwire

951005	12V	60W
951009	12V	150W
951012	24V	60W

Dimmable Driver

950007	12V	60W
951010	12V	150W

5 in 1 Dimming Driver

951003-12-060	12V	60W
951004-24-096	24V	96W
951006-24-192	24V	2x96W

CONTROLLER OPTIONS



RGB DMX

12V/24V x3CH

970022	12V	Max. 180W
	24V	Max. 360W

Inline Plug and Play Dimmer

970014	12V	48W
970014	24V	96W

* Other controller options available on request

Inline Dimmer with Remote

970007	12V	72W
970007	24V	144W

LED Dimming Module

970001	12V	60W
970001	24V	98W

Rotatory Style Dimmer

970002	5V	40W
970002	12V	96W
970002	24V	192W

CCT Controller

910025	12V/24V	Max. 60W
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CONNECTOR OPTIONS

DC jack 5'

80008	White
80006	Black

DC jack 10' (W)

80009	White
80007	Black

2 pin connector cable 5'

980048	White
980049	Black

Omnify Connector Hub

980047	White
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LIGHTBOX FRAME OPTIONS

Model

Profile

Engage

82200	1 1/16"
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Focus

82220	2"
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Captivate

81131/81132	30mm
81141/81142	40mm
81151/81152	Double Sided Frame

MOUNTING OPTIONS

Option 1	Z-Clips
Option 2	Z-Bar
Option 3	Standoffs

ORDER INFORMATION

LLP Series

Product #	Size	Color Temperature		Voltage	Wattage	Illumination	LED Location	Exit Type	Exit Location
121614 6 mm	CS: Custom Size	270-2700 K 300-3000 K 350-3500 K 410-4100 K 530-5300 K 650-6500 K	000-CCT(2700 K - 6500 K) 900-RGB 950-RGBW 100-Static red 110-Static green 120-Static blue	12-12V DC 24-24V DC	2.4 2.4 W/ft (Low Wattage)	1: Single face 2: Double face	1: LEDs along 1 long edge 2: LEDs along 2 long edges 3: LEDs along 1 short edge 4: LEDs along 2 short edges 5: LEDs along all 4 edges 6: Custom illumination	1: Edges 2: Notched 3: Rear	1: Corner Exit short side 2: Corner exit long side 3: Side Exit short side 4: Side exit long side
121814 8 mm					4.4 4.4 W/ft (Standard)				
121815 RGB 8mm					4.9 4.9 W/ft (RGBW)				
121817 RGBW 8mm					5.5 5.5 W/ft (CCT)				
121812 Tunable 8mm									

EXAMPLE

121814-11x14-350-12-2.4-1-1-1-1

The specification number immediately above can be deconstructed as follows:

- LumiSheet - 8mm; Dimensions(CS)-11"X 14"; Color Temperature-3500K; Voltage-12V; Wattage-2.4W/ft; Illumination-Single; Sided(1); Location(1)-1 Long Edge; Power Cord Exits from the corner(1); Power Cord Exit Location from the edges (1).