

## 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**

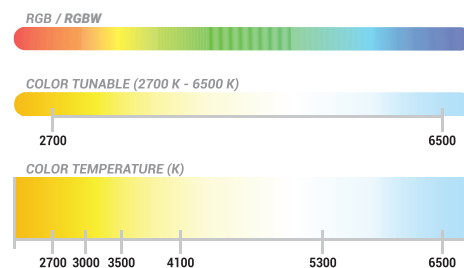
## Key Product Details



- Dimmable LEDs
- Embedded LEDs
- Integrated Heat Sink

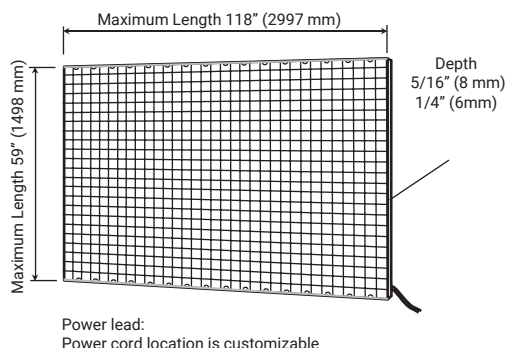
Our patented design offers the brightest, most evenly lit and durable LED light panel on the market, so you know you're getting the best.

## Light Temperature

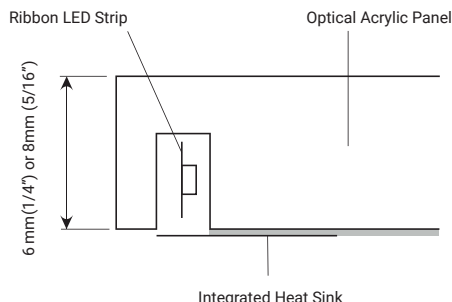


## OVERVIEW

### FRONT VIEW



### PROFILE VIEW



## SPECIFICATIONS

### PHYSICAL SPECIFICATIONS

|                              |                                                                                                          |                                                             |
|------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Part Number</b>           | 4 mm - 121414<br>6 mm - 121614<br>8 mm - 121814                                                          | RGB 8mm - 121815<br>RGBW 8mm - 121817<br>Tunable 8mm 121812 |
| <b>Series</b>                | LLP                                                                                                      |                                                             |
| <b>Chip</b>                  | OmniChip                                                                                                 |                                                             |
| <b>CRI</b>                   | ≥ 95                                                                                                     |                                                             |
| <b>Color Temperature</b>     | 2700 K • 3000 K • 3500 K • 4100 K • 5300 K • 6500 K • Tunable (2700K-6500K) • RGB • RGBW (3000K / 4100K) |                                                             |
| <b>Illumination</b>          | Single Face (SFI) • Double Face (DFI)                                                                    |                                                             |
| <b>Operating Temperature</b> | -30 °C (-22 °F) ~ +40 °C (+104 °F)                                                                       |                                                             |
| <b>Environment</b>           | Dry locations only (indoor)                                                                              |                                                             |
| <b>Thickness</b>             | White 8mm or 6mm, Tunable White 8mm, RGB 8mm, RGBW 8mm                                                   |                                                             |
| <b>Minimum Size</b>          | 2" (50 mm) L x 2" (50 mm) W                                                                              |                                                             |
| <b>Maximum Size</b>          | <b>4 mm:</b> 48" (1220 mm) x 96" (2440 mm) / <b>6mm + 8mm:</b> 59" (1500 mm) x 118" (3000 mm)            |                                                             |
| <b>Weight</b>                | <b>6mm</b> 1.46lbs / sq ft (7.15 kg / sq m) • <b>8mm</b> 1.95 lbs / sq ft (9.54 kg / sq m)               |                                                             |

### ELECTRICAL SPECIFICATIONS

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

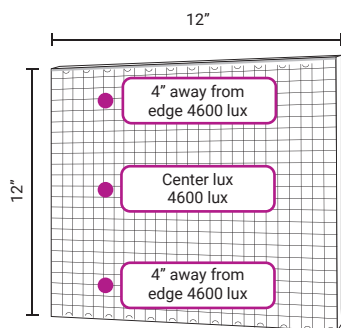
## LED TESTING DATA

### COLOR RENDERING INDEX • CRI: 95

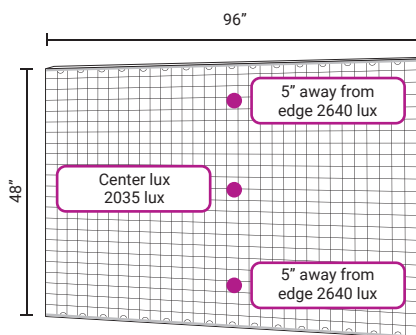
| R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11 | R12 | R13 | R14 | R15 |
|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|
| 98 | 96 | 92 | 94 | 99 | 93 | 95 | 97 | 95 | 91  | 93  | 82  | 97  | 95  | 98  |

## TYPICAL SURFACE BRIGHTNESS MEASUREMENTS

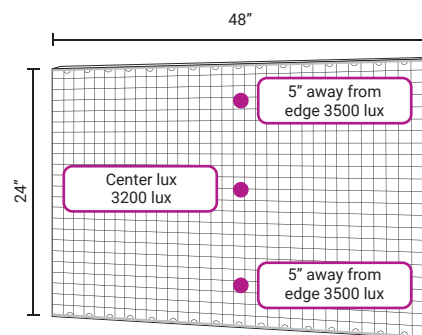
Brightness readings are for reference only. Actual reading may differ for different LEDs, LGPs or even different meters.



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)

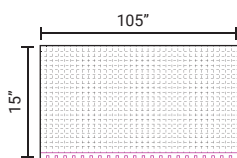


24" (609.6 mm) x 48" (1219.2 mm) LumiSheet with 5300 K LEDs lit along 2 long edges (30 W)

## LIGHT GUIDED PANEL SPECIFICATIONS BY SIZE

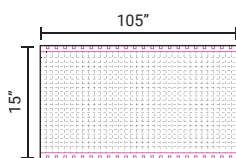
| Size (inch) | Size (mm)   | LED Strip  | *Average Surface Brightness (Lx) | Power Consumption (W) |
|-------------|-------------|------------|----------------------------------|-----------------------|
| 6 x 6       | 150 x 150   | 1 side     | 6,000                            | 2.0                   |
| 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



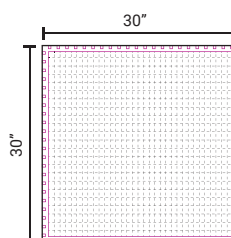
### LED ON 1 SIDE

• Maximum width 15"



### LED ON 2 SIDES

• Over 15" between LEDs



### LED ON 4 SIDES

• Over 30" between LEDs

## MOUNTING 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

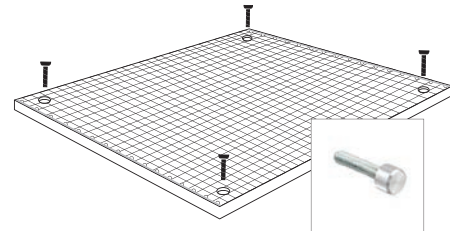
Holes must be drilled by Omnify during the manufacturing process according to specification drawings.

#### OPTION 2: Z-CLIPS

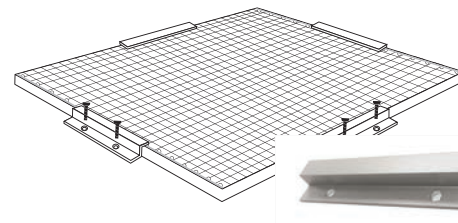
Screw z-clips to the back of the frame and to the wall.

#### OPTION 3: EDGE CLIPS / STANDOFFS

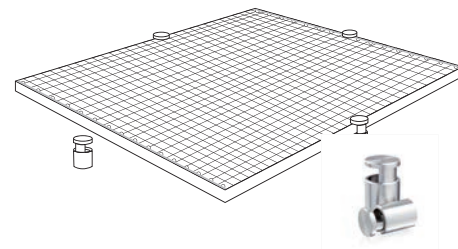
Source either 5/16" (8 mm), or 1/4" (6 mm) clips to suit the depth of your panel. Affix the panel to the surface as you would a mirror.



OPTION 1



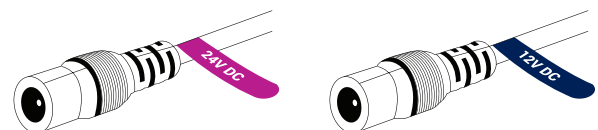
OPTION 2



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.

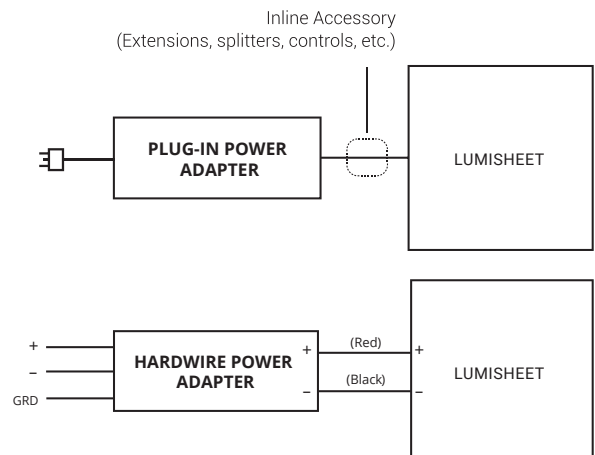


### WIRING WITH PLUG-IN POWER ADAPTORS:

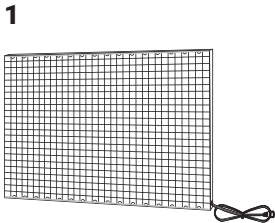
- Use a plug-in adaptor to connect the Light Guided Panel to your power source.

### WIRING WITH HARDWIRE POWER ADAPTORS:

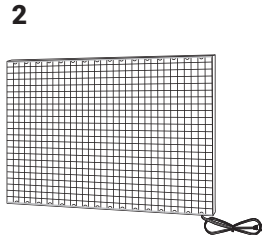
- Turn off power to your system at the main breaker;
- Install your system components. Refer to wiring guidelines for each component to build your system;
- Check connections and turn on power at the main breaker.



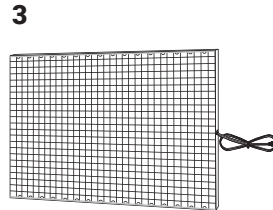
## WIRE EXIT LOCATION OPTIONS



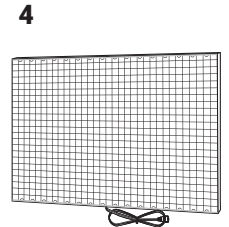
Corner Exit short side



Corner exit long side

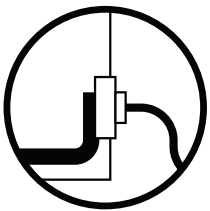


Side Exit short Side



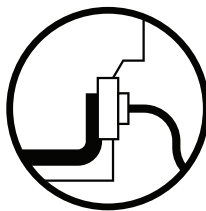
Side exit long side

## EXIT TYPE OPTIONS



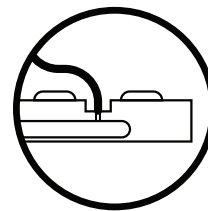
**1 - Edge**

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

Choose wire exit(s) using the  
numbers in the diagram.

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

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

Please consult with us if panel  
wattage is greater than 100W

