# Omnify

# OmniSheet™ RGB

**5 YEAR WARRANTY** · **IP22** · **LM80** · **c UL us LISTED** · **Built with OmniChip**

*8mm Embedded color*
*LED dimmable light panel*
*Part#: RGB 8mm **121815** · RGBW 8mm **121817***

## Job Information *Fill out project deitails for this product below*

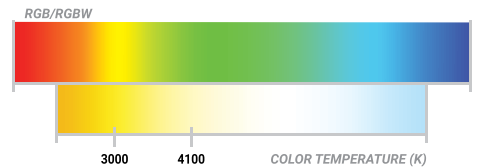| Project | | Location | |
|---|---|---|---|
| Contact | | Date | |
| Product Number | | Fixture Type | |

Adding a RGB/RGBW light engine to industry-leading illumination, OmniSheet Chroma supports you in building out all aspects of your personalized design in full-blown color.
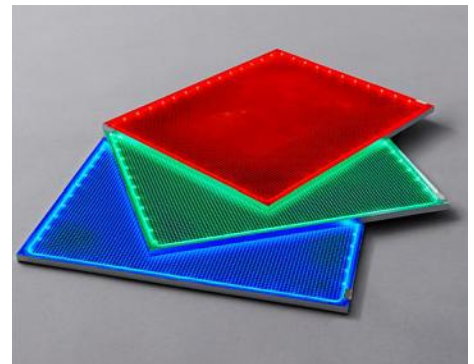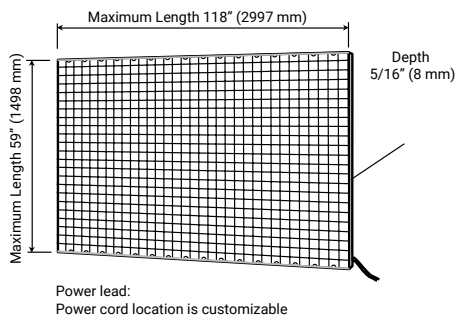


## APPLICATIONS

- Backlighting
- Large Formats
- Backlit Stone
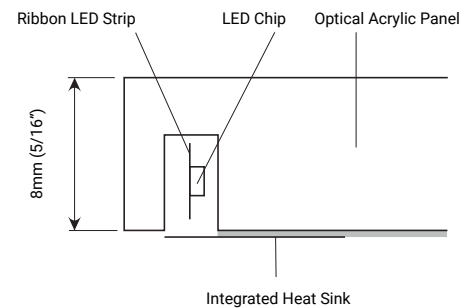- Backlit Graphics

## LIGHT TEMPERATURE

*RGB/RGBW*



3000    4100    *COLOR TEMPERATURE (K)*

## OVERVIEW

### FRONT VIEW



Maximum Length 118" (2997 mm)
Maximum Length 59" (1498 mm)
Depth 5/16" (8 mm)
Power lead:
Power cord location is customizable

### PROFILE VIEW



Ribbon LED Strip    LED Chip    Optical Acrylic Panel
8mm (5/16")
Integrated Heat Sink

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*8mm Embedded color
LED dimmable light panel*

## SPECIFICATIONS

### PHYSICAL SPECIFICATIONS

| | |
|---|---|
| **Part Number** | RGB 8mm - 121815<br>RGBW 8mm - 121817 |
| **Series** | LLP |
| **Chip** | OmniChip |
| **CRI** | ≥ 95 |
| **Color Temperature*** | 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** | 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** | **8mm** 1.95 lbs / sq ft (9.54 kg / sq m) |
| **Fire Rating** | Meets UL94V-0 standard |
| **Lumen Maintenance** | LM 80 |

### ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| **Input Voltage** | 12V DC (RGB) • 24V DC (RGB & RGBW) |
| **Power Consumption** | 4.4 W/ft Max. (RGB) • 4.9 W/ft Max. (RGBW) |
| **Wire Size** | 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.<br>Maximum wire length 20 ft (6 m) to avoid voltage drop |
| **Connector** | Bare wire |
| **Certification** | UL listed (E346146) |

*\*LED Kelvin temperatures listed in this literature have been derived from raw LED data. Actual Kelvin ratings can vary +/- 200 K based upon environmental conditions including but not limited to inclusion into LGPs and the use of diffusion materials. A precise ANSI bin control system is utilized to help maintain LED conformity and to minimize variances*
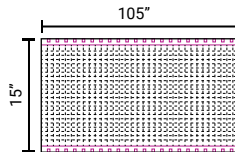
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*8mm Embedded color LED dimmable light panel*

## OPTIMAL ILLUMINATION OPTIONS FOR UNIFORMITY

105″ · 15″
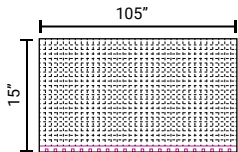
**LED ON 1 SIDE**
• Maximum width 15″

105″ · 15″

**LED ON 2 SIDES**
• Over 15″ between LEDs

30″ · 30″
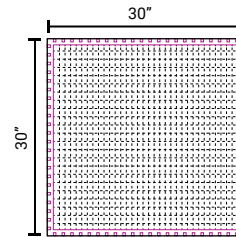
**LED ON 4 SIDES**
• Over 30″ between LEDs

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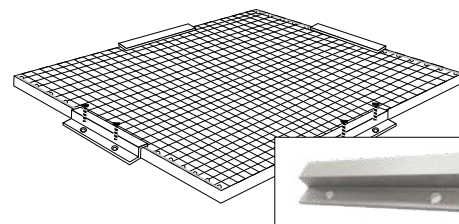Screw z-clips to the back of the frame and to the wall. Request Z-clips if required.

### OPTION 3: EDGE CLIPS / STANDOFFS
Source either 5/16″ (8 mm), or 1/4″ (6 mm) clips to suit the depth of your OmniSheet panel. Affix the panel to the surface as you would a mirror. Edge clips are sold separately.
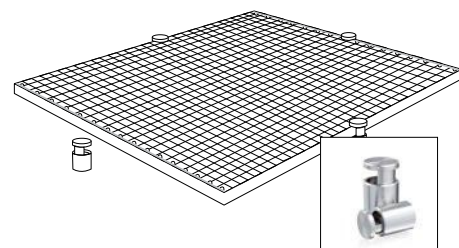
> *Contact your Omnify representative about alternative mounting options.*
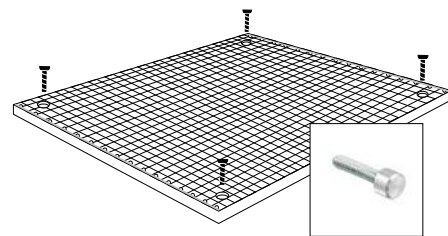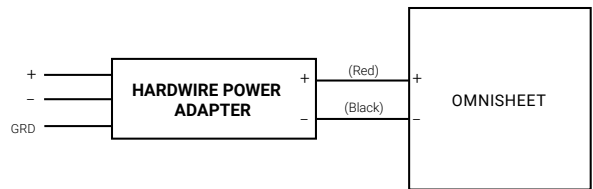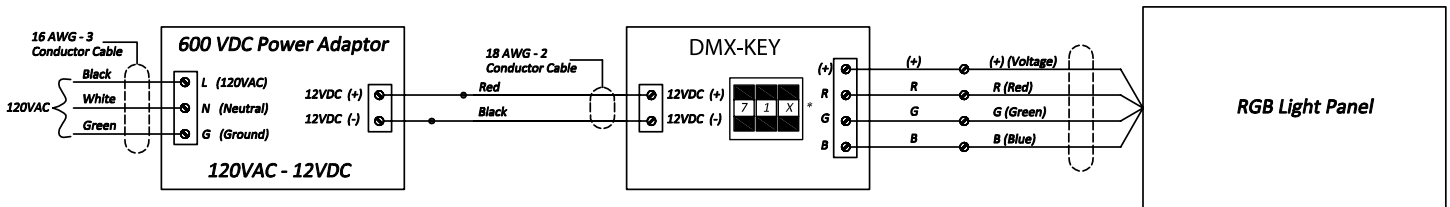
OPTION 1

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.
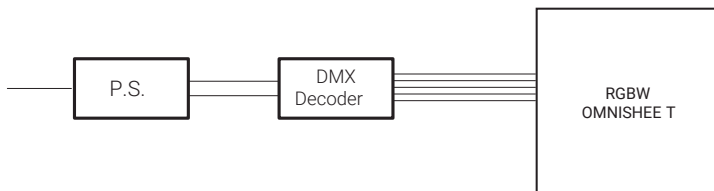
### WIRING WITH HARDWIRE POWER ADAPTORS:

**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;
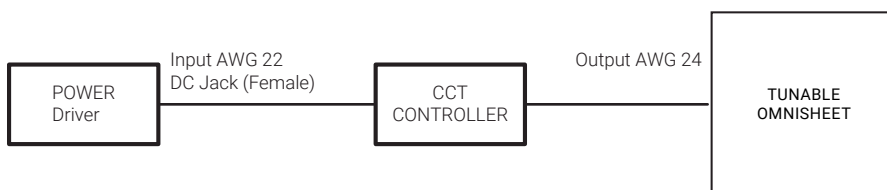**3.** Check connections and turn on power at the main breaker.



### WIRING RGB



### WIRING RGBW



### WIRING TUNABLE

## WIRE EXIT LOCATION OPTIONS
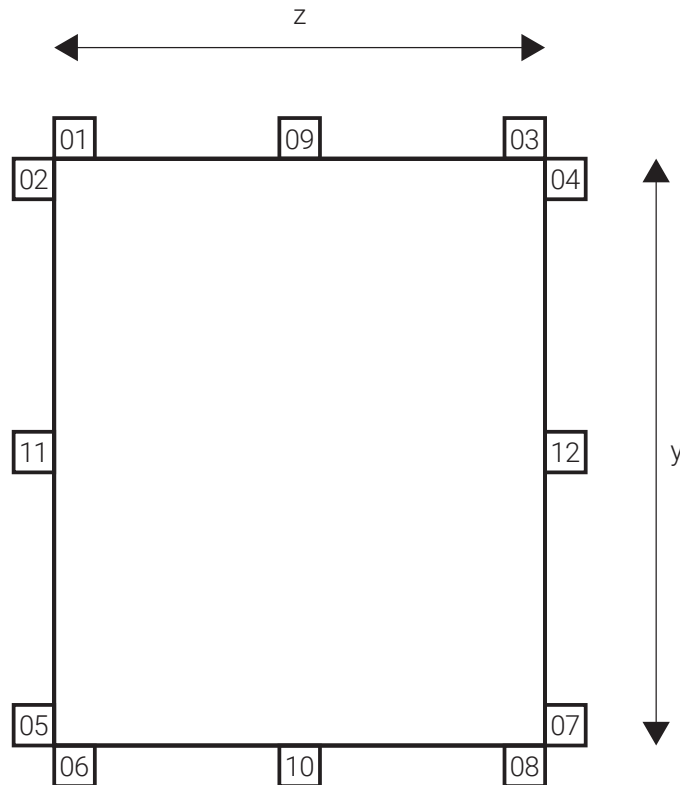
z

| 01 | | 09 | | 03 |

02 | | | | | 04

**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

Chose wire exit(s) from above:

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

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

• *Please consult with CSR if panel wattage is >100W*

11 | | | 12

y

05 | | | 07
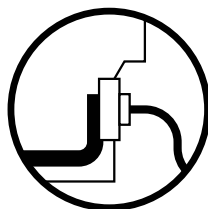
| 06 | | 10 | | 08 |

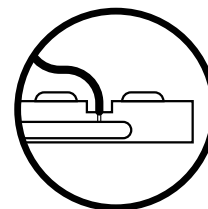## EXIT TYPE OPTIONS
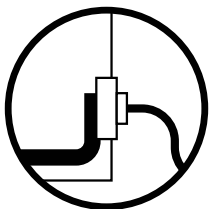


**1 - Edge**
Power cord exits from edges



**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 (UL)

**Hardwire**

| | | |
|---|---|---|
| 951005 | 12V | 60W |
| 951009 | 12V | 150W |
| 951012 | 24V | 60W |
| 950037 | 12V | 60W |
| 950037 | 24V | 60W |
| 950038 | 24V | 96W |
| 950039 | 24V | 150W |

**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 |

*\* Other power options available on request*

### CONTROLLER OPTIONS (UL)

**DMX Decoder**

| | | |
|---|---|---|
| 970032 | 12-36VDC | 4x (96-288)W |
| 970033 | 12-24VDC | 5x (96-192)W |

**DMX Wall Controller**

| | | |
|---|---|---|
| 970042 | RGB/RGBW | 12-24VDC |

**RGBW Dimmable Driver**

| | | |
|---|---|---|
| 950035 | RF RGBW Driver | 24VDC |
| 950036 | RF RGBW Remote Control | |

**Power Repeater**

| | | |
|---|---|---|
| 970037 | 12-36VDC | 4x (60-180)W |

*\* Other controller options available on request*

### MOUNTING OPTIONS

| | |
|---|---|
| Option 1 | Pre-drilled holes |
| Option 2 | Z-Clips |
| Option 3 | Standoffs |

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## ORDER INFORMATION

### LLP Series

| Product # | Size | Color Temperature | | Voltage | Wattage |
|---|---|---|---|---|---|
| 121815 RGB 8mm  121817 RGBW 8mm | z-y: Custom Size | 900 RGB 950 RGBW (3000K) 951 RGBW (4100K) 100 Static red 110 Static green 120 Static blue | | 12-12V DC  24-24V DC | 4.4 4.4 W/ft (RGB)  4.9 4.9 W/ft (RGBW) |

| Connectors | Illumination | LED Location | Exit Type | Exit Location | Mounting |
|---|---|---|---|---|---|
| Bare Wire | 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 | Wiring exit options diagram  01 - 02 -03 - 04 - 05 - 06  07 - 08 - 09 - 10 - 11 - 12 | 1 Pre-Drilled Holes  2 Z-Clips  3 Standoffs  4 N/A |

*\* Only available with 12V*

## EXAMPLE

**121815-11x14-900-12-4.4-1-1-1-1-2**

The specification number immediately above can be deconstructed as follows:

- OmniSheet Chroma RGB - 8mm; Dimensions(z-y)-11"X 14"; Color Temperature-RGB; Voltage-12V; Wattage-4.4W/ft; Illumination-Single; Sided(1); Location(1)-1 Long Edge; Power Cord Exits (1); Power Cord Exit Location from the edges (1)' Z-clips(2).