



6mm Embedded
100% Recycled Acrylic Light Panel

Part # 4mm **1214142**

Part # 6mm **1216142**

Job Information <i>Fill out project details for this product below</i>			
Project		Location	
Contact		Date	
Product Number		Fixture Type	

Using the top tier components as the original OmniSheet™, but now a more sustainable option. OmniSheet™ Eco is made with 100% recycled acrylic derived from domestic post-consumer waste. The recycled acrylic can be reused over and over again. Manufactured and recycled in North America, OmniSheet™ Eco has the same physical properties as cast acrylic, with optical clarity. A notably lower carbon footprint due to a synthetic monomer additive. Free of VOC's and HFC. Recycling uses less water and generates less CO2 than virgin acrylic.



APPLICATIONS

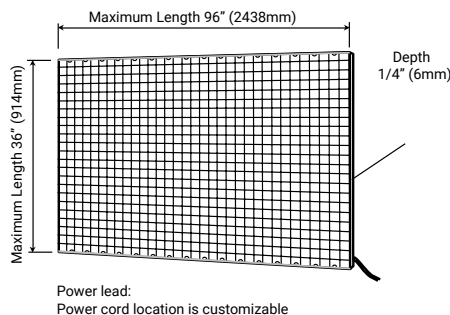
- Backlighting
- Feature Walls
- Shelving
- Backlit Stone
- Backlit Graphics
- Ceilings

COLOR TEMPERATURE (K)

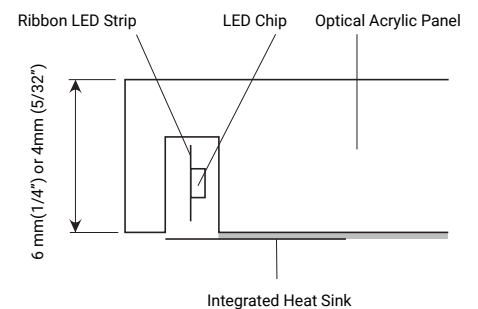


OVERVIEW

FRONT VIEW



PROFILE VIEW





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SPECIFICATIONS

PHYSICAL

Part Number	4mm-1214142 • 6mm-1216142
Series	LLP
Chip	OmniChip
CRI	≥ 95
Color Temperature*	2700 K • 3000 K • 3500 K • 4100 K • 5300 K • 6500 K
Illumination	Single Face (SFI) • Double Face (DFI)
Operating Temperature	-30 °C (-22 °F) ~ +40 °C (+104 °F)
Environment	Dry / Damp location only (indoor)
Thickness	5/32" (4 mm) 1/4" (6 mm)
Minimum Size	2" (50 mm) L x 2" (50 mm) W
Maximum Size	36" (914mm) W x 96" (2438mm) L
Weight	6mm 1.46 lbs / sq ft (7.15kg / sq m)
Fire Rating	Meets UL94V-0 standard

ELECTRICAL

Input Voltage	12V DC • 24V DC
Power Consumption	4.4 W/ft (Standard), 2.4W/ft (Low-wattage)
Wire Size	20 AWG 2 wire (Standard)
Wiring	Each Panel must be wired to power supply or wired in parallel. 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)
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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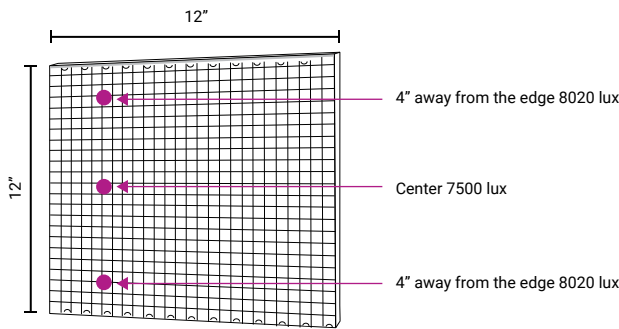
LED TESTING DATA

COLOR RENDERING INDEX • CRI: 95

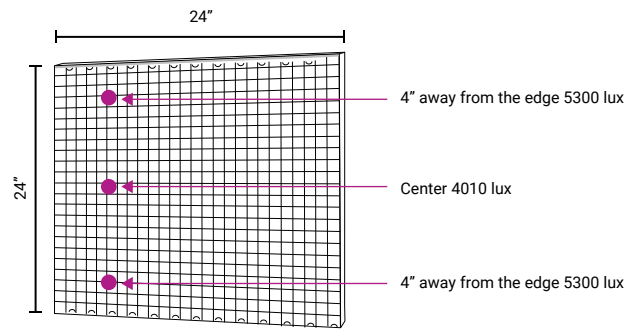
R1 = 98 R2 = 99 R = 98 R4 = 96 R5 = 96 R6 = 97 R7 = 96 R8 = 95
R9 = 90 R10 = 97 R11 = 98 R12 = 74 R13 = 99 R14 = 98 R15 = 96

TYPICAL SURFACE BRIGHTNESS MEASUREMENTS

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

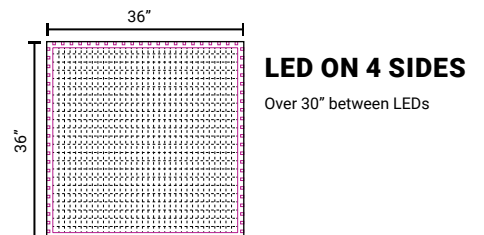
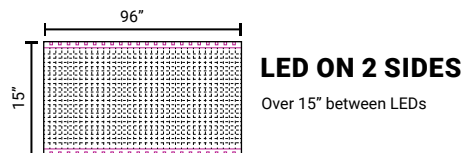
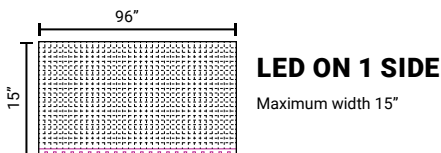


Two side lit, 12" (304.8 mm) x 12" (304.8 mm) Omnisheet Eco with 5300 K LEDs lit along 2 long edges (8W)



Two side lit, 24" (609.6 mm) x 24" (609.6 mm) Omnisheet Eco with 5300 K LEDs lit along 2 long edges (8W)

OPTIMAL ILLUMINATION OPTIONS FOR UNIFORMITY





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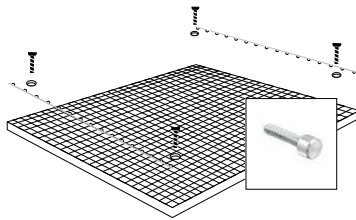
MOUNTING OPTIONS

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

Mount panels securely using one of these options. For alternative mounting options, please contact your Omnify representative.

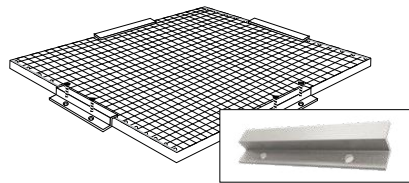
OPTION 1: SCREWS WITH PRE-DRILLED HOLES

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



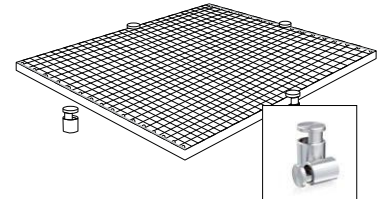
OPTION 2: Z CLIPS

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



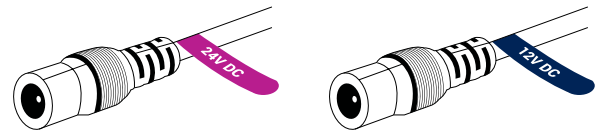
OPTION 3: EDGE CLIPS / STANDOFFS

Source either 5/16" (8mm) clips to suit depth of the OmniSheet™ Eco panel. Affix the panel to the surface as you would a mirror. Edge clips are sold



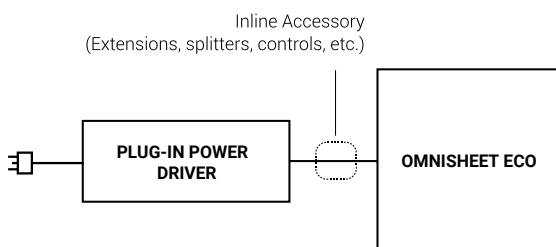
WIRING

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



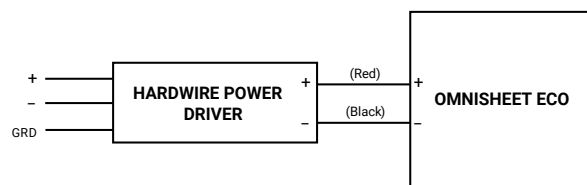
WIRING WITH PLUG-IN POWER DRIVER

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



WIRING WITH HARDWIRE POWER DRIVER

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.





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WIRE EXIT LOCATION OPTIONS

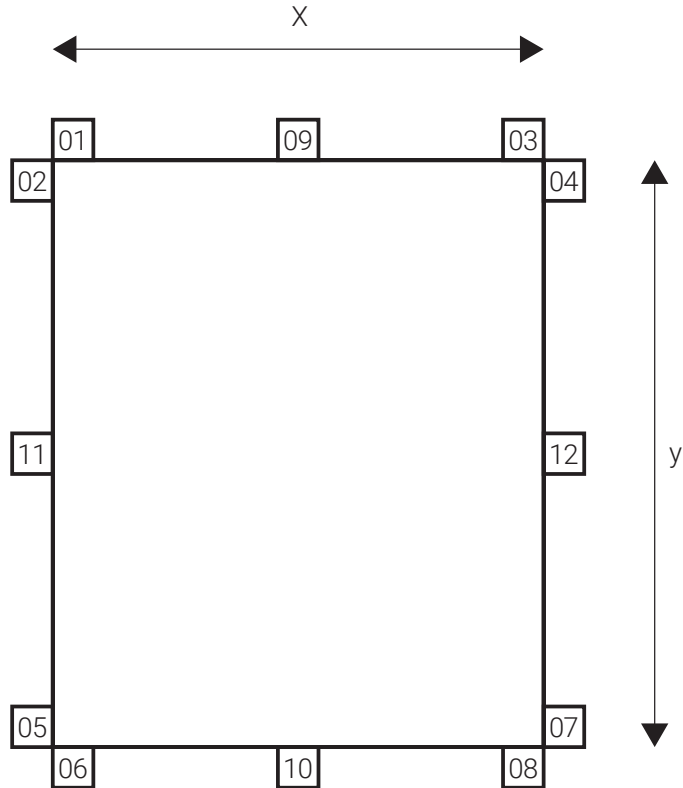
- 1, 3, 6, 8:** Corner Exit short side
- 2, 4, 5, 7:** Corner exit long side
- 9, 10:** Side Exit short side
- 11, 12:** Side exit long side

Chose wire exit(s) from above:

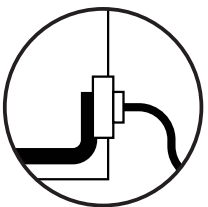
12V - Wattage <50W 1 wire; Wattage >50W 2 wires

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

Please consult with Customer Support Team if panel wattage is >100W

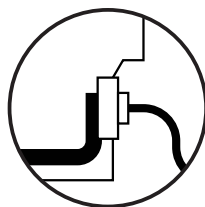


EXIT TYPE OPTIONS



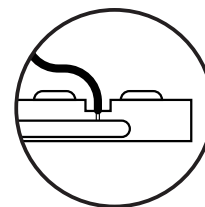
1 - Edge

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



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ACCESSORIES AND OPTIONS

POWER ADAPTORS OPTIONS

Plug-in (Class 2)

950003-12-060	12V	60W
950021-24-024	24V	24W
950025-24-096	24V	96W
950033-24-036	24V	36W
950034-12-024	12V	24W
950035-24-096	24V	96W
950036-12-060	12V	60W
950036-24-060	24V	60W

Hardwire

950037-12-060	12V	60W
950037-24-060	24V	60W
950038-24-096	24V	96W
950039-24-115	24V	150W

Magnetic Driver

950007	12V	60W
951010	12V	150W
951015	24V	96W
951016	24V	150W

5 in 1 Dimming Driver

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

LED Power Driver (Class 2)

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

CONTROLLER OPTIONS

Inline Plug and Play Dimmer

970014	12V	48W
970014	24V	96W

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

* Other controller options available on request

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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MOUNTING OPTIONS

Option 1	Pre-Drilled Holes
Option 2	Z-Clips
Option 3	Standoffs



OmniSheet™ Eco



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ORDER INFORMATION

LLP Series

Product #	Size	Color Temperature		Voltage	Wattage
1216142 6mm	z-y: Custom Size	270-2700 K	300-3000 K	12-12V DC	4.4 4.4 W/ft (Standard)
		350-3500 K	410-4100 K	24-24V DC	2.4 2.4 W/ft (Low-Wattage)
		530-5300 K	650-6500 K		
Connectors	Illumination	LED Location	Exit Type	Exit Location	Mounting
80008 DC jack 5' White 80006 DC jack 5' Black 80009 DC jack 10' White 80007 DC jack 10' Black 980048 2 Pin Connector 5' cable White 980049 2 pin Connector 5' cable Black 980047 Omnify Connector Hub	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

1216142 - 11x14 - 350 - 12 - 2.4 - 80008 - 1 - 1 - 1 - 01 - 2

The specification number immediately above can be deconstructed as follows:

OmniSheet™ Eco - 6mm; Dimensions(z-y)-11"X 14"; Color Temperature-3500K; Voltage-12V; Wattage-2.4W/ft; Illumination-Single; Sided(1); Location(1)-1 Long Edge; Power Cord Exits (1); Power Cord Exit Location from the edges (01)' Z-clips(2).