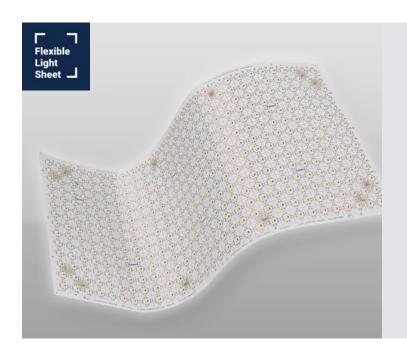
Project	Location	
Contact	Date	
Part#	Fixture	

Matrix[™] Wet Rated

420 Diode Indoor/Outdoor Flexible Light Sheet



Description

Extremely versatile in indoor, outdoor, and low-depth diffusion applications, can bend or fold to fit curved surfaces, and boasts the smallest cuttable size in the industry (1 LED). The Product also eliminates hot spots with tight pitch LEDs, and has low power requirements, generating a very low heat signature.

Applications

- Backlighting
- · Backlit stone
- Backlit graphics
- Architecture features
- Unique or curved surfaces
- Outdoor or indoor applications

















Shallow Diffusion Depth



Suitable for Wet Locations



Uniform Lighting



Easy

Key Features

- · Can fold or bend to fit curved surfaces
- Wet-rated conforms to IP65 standard for the sheet.*
- Low power consumption and operating temperature, requiring only 12 W/Sheet
- · Smallest cuttable size in the industry (1 diode)
- With diffusion depth starting at 0.5", it's great in low-depth diffusion applications

- CRI of 85+
- Even lighting throughout sheets, with no visible brightness differences between sheets and voltage drops.
- Can be easily mounted with screws, or 3M adhesive backing, and can be cut onsite

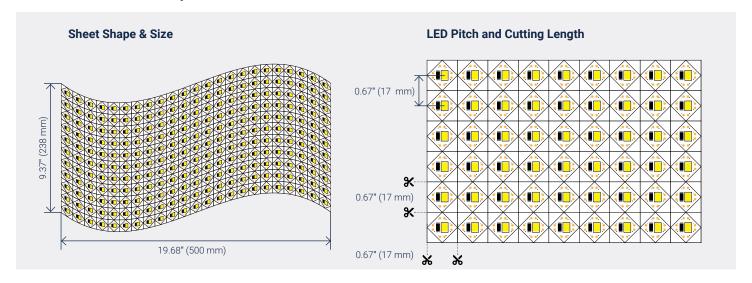
Specifications

Performance	Matrix™ Wet Rated		
Part Number	#431100		
CRI	85+		
Color Temperature	4100K, 5300K, 6500K		
Lumens	1600lm / sheet		
Efficacy	>100lm/W		
Lumen Maintenance	L70@~102000 hrs (LM80)		
Diode Pitch	0.67" (17 mm)		
LED Count	420LEDs / sheets		
Operating Temp.	-30° C (-22° F) ~ +50° C (+122° F)		
IP Rating	IP65		
Environment	Wet-rated - conforms to IP65 standard for the sheet (To maintain wet rating, we reccomend applying silicone over all connection points, and also over any area that has been cut)		
UL / ETL	UL Listed (E346146)		
Warranty	5 Years		
Mechanical			
Thickness	Bumper height - 8 mm • Overall depth of the system (including bumper) - 8.75 mm		
Sheet Size	9.375" L x 19.6875" W 238 mm L x 500 mm W		
Cuttable Size	0.67" x 0.67" 17 mm x 17 mm		
Weight	0.3 lb /sheet (0.13 kg /sheet)		
Maximum Size	Max. 7 sheets (96W driver)		
Mounting	3M adhesive backing, Mounted with screws		
Electrical			
Input Voltage	24V DC		
Power Consumption	12W /sheet		
Wire size	20 AWG, 2 wire		
*Accessories	Includes 4x jumper cables with 2-pin connector(length:30 mm) 4x jumper cables with 2-pin connector(length:95 mm) 1x hardwire cable with 2-pin connector (length:610 mm) 1x adapter cable with 2.1 mm/5.5 mm female barrel connector 8x bumpers		
Connector	12 integrated 2 pin connector blocks /sheet		

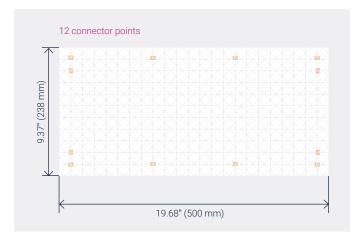
^{*}Accessories included per sheet

Customization

Sheet Customization Options



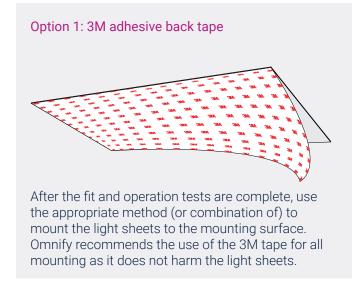
Connections



Accessories



Mounting Options



Option 2: Mechanical Fasterners



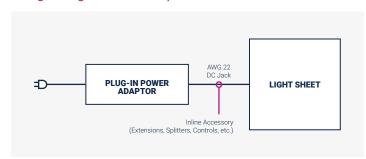
Mechanical Fasteners: Penetrations through the light sheet must be made inside the squares with the cross. For applications that are suspended, use plastic fasteners and washers and allow appropriate spacing to avoid sagging. Use plastic pan head, coned, or round head screws (not tapered screws like wood or drywall). Never screw the fastener so much that it causes deformation in the sheet.

Customization

Wiring Options

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.

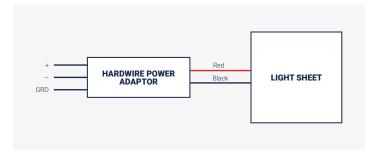
Using a Plug-in Power Adaptor





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

Wiring with Hardwire Power Adaptors



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

Configurator



Part #	Color Temperature	Voltage	Wattage/ft
431100 – Matrix™ Wet Rated	410 – 4100K	24 – 24V DC	12 – 12W /sheet
	530 – 5300K		
	630 – 6300K		

Orders can be placed by choosing all the options and configuration parameters, which generates an order code. Put your order code together by putting the codes from the above tables you would like to have in the same order from above into each cell below.

Part # Color Temp. Voltage Wattage

Order Code Example

431100-410-24-12

Breakdown: Matrix™ Wet Rated Light Sheet - 4100K White Color Temperature - 24V DC Input voltage -12W / sheet Wattage.

Accessories

Compatible Power Adaptors

Plug-in Power Drivers

Part Number	AC Input Range	DC Voltage	Rated Current	Rated Wattage
950025-24-096	100V AC ~ 240V AC	24V DC	4.0A	96W
950033-24-036	100V AC ~ 240V AC	24V DC	1.5A	36W
950035-24-096	100V AC ~ 240V AC	24V DC	4.0A	96W
950036-24-060	100V AC ~ 240V AC	24V DC	2.5A	60W

Hardwire Power Drivers

Part Number	AC Input Range	DC Voltage	Rated Current	Rated Wattage
950037-24-060	100V AC ~ 277V AC	24V DC	2.5A	60W
950038-24-096	100V AC ~ 277V AC	24V DC	4.0A	96W
950039-24-150	100V AC ~ 277V AC	24V DC	6.25A	150W

5-in-1 Dimmable Power Drivers

Part Number	AC Input Range	DC Voltage	Rated Current	Rated Wattage
951004-24-096	100V AC ~ 277V AC	24V DC	4.0A	96W
951006-24-192	100V AC ~ 277V AC	24V DC	2 x 4.0A	2 x 96W

Safety Disclaimer

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 panels, as within seconds the result may be burned LEDs or fire. Look for your voltage tags at the end of the power cord.



Accessories

Compatible Power Controllers

12V /24V DC

Rotary Style Dimming Controller

970001

Part Number	DC Voltage	Channels	Dimming Range	Rated Wattage
970002	12V / 24V DC	N/A	PWM	96W / 192W
nline Plug & Play Dimmi	ng Controller			
Part Number	DC Voltage	Channels	Dimming Range	Rated Wattage
970014	12V / 24V DC	N/A	PWM	48W / 96W
nline Dimming Controlle	r with Remote			
Part Number	DC Voltage	Channels	Dimming Range	Rated Wattage
970007	12V / 24V DC	N/A	PWM	72W / 144W
ED Dimming Controller	Module			
Part Number	DC Voltage	Channels	Dimming Range	Rated Wattage

N/A

0V - 10V

60W / 96W

Safety Disclaimer

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 panels, as within seconds the result may be burned LEDs or fire. Look for your voltage tags at the end of the power cord.