



420 diode LED light sheet  
(single cuttable)

**Part#: 430600**

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

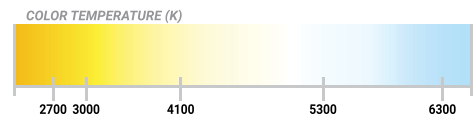
The Matrix LED light sheet is the smallest cuttable size in the industry (1 LED) with extremely versatile in application with low depth diffusion. Low power requirements generate a very low heat signature and tight pitch LEDs eliminate hotspots.



## APPLICATIONS

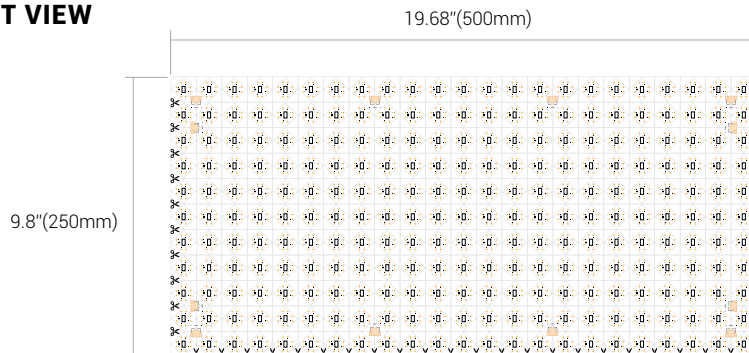
- Backlighting
- Large Formats
- Backlit Stone
- Backlit Graphics

## LIGHT TEMPERATURE

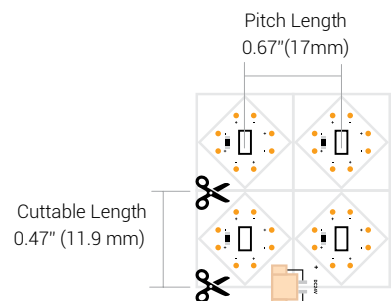


## OVERVIEW

### FRONT VIEW

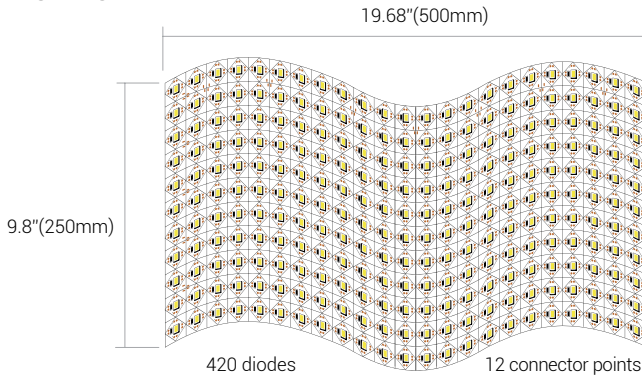


### PROFILE VIEW



## DETAILS

### LIGHT SHEET



### ACCESSORIES



## SPECIFICATIONS

### PHYSICAL

<b>Part Number</b>	430600
<b>CRI</b>	85+
<b>LED / Sheet</b>	420 pieces (3 macadam ellipse)
<b>Color Temperature</b>	2700 K • 3000 K • 4100 K • 5300 K • 6300 K
<b>Lumens</b>	1600 lm/sheet
<b>Operating Temperature</b>	-30 °C (-22 °F) ~ +40 °C (+104 °F)
<b>Environment</b>	Dry / Damp location only (indoor)
<b>Mounting</b>	Mounted with screws, 3M adhesive backing
<b>Size of sheet</b>	19.68" (500 mm) (L) x 9.8" (250 mm) (W)
<b>Minimum Size</b>	Minimum cuttable size of 0.47" x 0.47"
<b>Maximum Size</b>	Maximum tiling up to 7 sheets - based on 96W driver
<b>Depth</b>	Bumper height - 8mm • Overall depth of the system (including bumper) - 8.75mm
<b>Weight</b>	0.3 lb/sheet
<b>Accessories</b>	Includes connection wires and hardwire cables with 2-pin connector male plug and a plug-in adapter cable with 2.1mm/5.5mm female barrel connector
<b>Lumen Maintenance</b>	LM80

### ELECTRICAL

<b>Input Voltage</b>	24V DC
<b>Power Consumption</b>	12 W/Sheet
<b>Wire Size</b>	20 AWG cable with 2 pin connectors and 2.1/5.5 mm DC barrel connector
<b>Wiring</b>	20 AWG cable with 2 pin connectors and 2.1/5.5 mm DC barrel connector
<b>Connector</b>	12 integrated 2-pin connector blocks/Sheet
<b>Certification</b>	UL listed (E346146), UL recognized component (E362079), CE, RoHS

## MOUNTING OPTIONS

Omnify recommends the use of the 3M tape for all mounting as it does not harm the light sheets.

- After the fit and operation tests are complete, use the appropriate method (or combination of) to mount the light sheets to the mounting surface.
- As various mounting methods may be used, determine the best method after evaluating the type of mounting surface and the orientation of the light sheets.
- 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. See Figure 1.

**Re-test function prior to installing the forward facing, translucent material.**

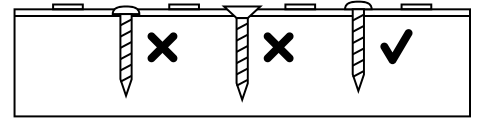


FIGURE 1



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## ACCESSORIES AND OPTIONS

### POWER ADAPTORS OPTIONS



#### Plug-in (Class 2)

950021	24V	24W
950024	24V	90W
950035	24V	96W
950036	24V	60W

#### Hardwire

951012	24V	60W
950037	24V	60W
950038	24V	96W
950039	24V	150W

#### 5 in 1 Dimming Driver

951004-24-096	24V	96W
951006-24-192	24V	2x96W

\* Other power options available on request

### CONTROLLER OPTIONS



#### Inline Dimmer with Remote

970007	24V	144W
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#### LED Dimming Module

970001	24V	98W
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#### Inline Plug and Play Dimmer

970014	24V	96W
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#### Rotatory Style Dimmer

970002	24V	192W
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\* Other controller options available on request

### CONNECTOR ACCESSORIES

Connection Wires	2 pin male plug
Hardwire Cables	2 pin male plug

#### Plug-In Adapter

5.5mm female barrel connector
2.1mm female barrel connector

### MOUNTING OPTIONS

Option 1	Screws (not included)
Option 2	3M Adhesive Back



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## ORDER INFORMATION

LSM24-A

Product #	-	Color Temperature	Voltage	Wattage
430600	-	270-2700 K 300-3000 K 410-4100 K 530-5300 K 630-6300 K	24-24V DC	12 12 W/Sheet
-	-	-	-	-

## EXAMPLE

**430600-630-24-12**

The specification number immediately above can be deconstructed as follows:

- Matrix Sheet; Color Temperature-6300K; Voltage-24V; Wattage-12 W/Sheet.