



72 diode LED light sheet with optical lens (single cuttable)

Part#: 430900

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

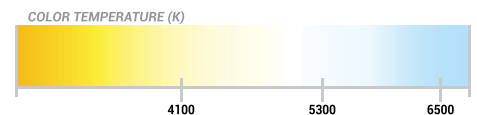
Lightweight and flexible, the OptiMatrix LED light sheet is unparalleled in creative lighting designs. With a clear 160° lens on each diode, the OptiMatrix ensures consistent lumen output and even light dispersion with a low wattage profile.



APPLICATIONS

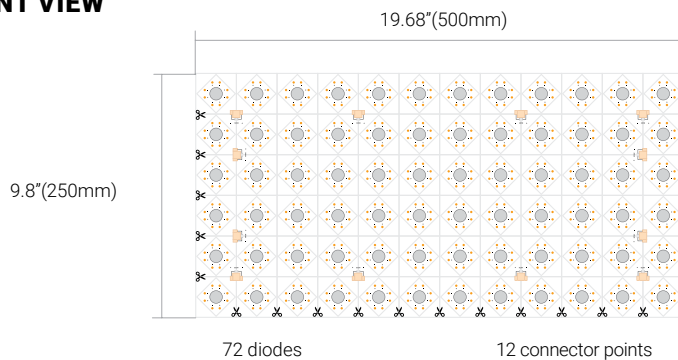
- Backlighting
- Large Formats
- Backlit Stone
- Backlit Graphics

LIGHT TEMPERATURE

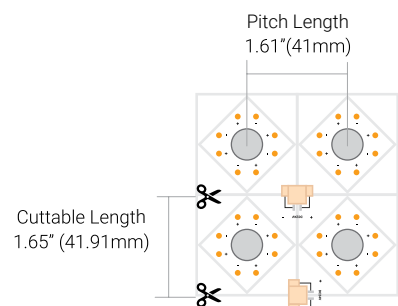


OVERVIEW

FRONT VIEW



DETAIL VIEW





72 diode LED light sheet with optical lens(single cuttable)

SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Part Number	430900
Model #	LSM24-B
Beam Angle	160°
Chip	Legacy
CRI	85+
LED / Sheet	72 pieces
Color Temperature	4100 K • 5300 K • 6500 K
Lumens	1200 lm/Sheet
Operating Temperature	-30 °C (-22 °F) ~ +40 °C (+104 °F)
Environment	Dry / Damp location only (indoor)
Mounting	Mounted with screws, 3M adhesive backing
Size of sheet	19.68"(500 mm) x 9.8"(250 mm)
Minimum Size	Minimum cuttable size of 1.65" x 1.65"
Maximum Size	Maximum tiling up to 8 sheets - based on 90W driver
Weight	0.45 lb/sheet
Accessories	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

ELECTRICAL SPECIFICATIONS

Input Voltage	24V DC
Power Consumption	12 W/Sheet / 0.1667 W / diode
LED Forwarding Voltage	18V DC
LED Forwarding Current	6.75mA
Wire Size	20 AWG cable with 2 pin connectors and 2.1/5.5 mm DC barrel connector
Wiring	20 AWG cable with 2 pin connectors and 2.1/5.5 mm DC barrel connector
Connector	12 integrated 2-pin connector blocks
Certification	UL listed (E346146), CE, RoHS

MOUNTING OPTIONS

OptiMatrix comes with 3M tape on the back for mounting. Screws not included.

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.

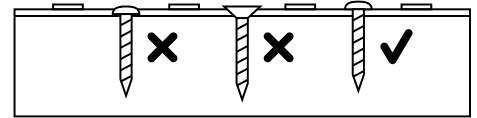


FIGURE 1



72 diode LED light sheet with optical lens(single cuttable)

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



OptiMatrix™



RoHS



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ORDER INFORMATION

LSM24-A

Product #	Size	Color Temperature	Voltage	Wattage
430900	z-y: Custom Size	410-4100 K 530-5300 K 630-6300 K	24-24V DC	12 12 W/Sheet
-	-	-	-	-

EXAMPLE

430900-630-24-12

The specification number immediately above can be deconstructed as follows:

- OptiMatrix Sheet; Dimensions(CS); Color Temperature-6300K; Voltage-24V; Wattage-12 W/ft;