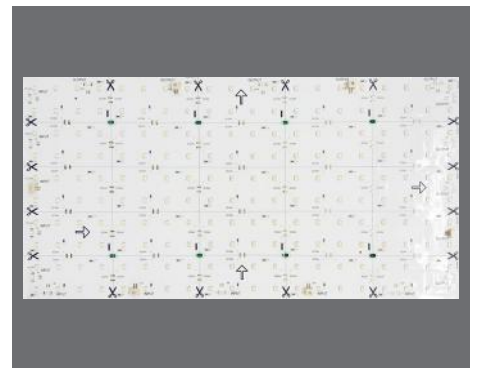


Job Information <i>Fill out project details for this product below</i>			
Project		Location	
Contact		Date	
Product Number		Fixture Type	

The Matrix XD LED light sheet is a IP22, low cost solution for backlighting lightboxes, signage, and ceiling lights.

The 3" depth for ceilings/walls application, easy installation, 3M tape, and daisy chain makes Matrix XD™ a great choice for your lighting projects.

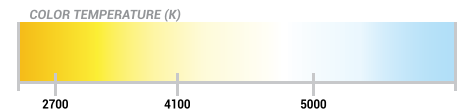
Cutable for small areas as low as 8 LED.



APPLICATIONS

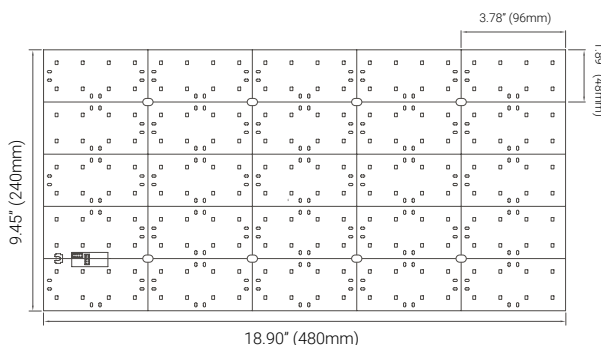
- 3" Backlit lightboxes
- Ceilings
- Curved walls
- Backlit Graphics

LIGHT TEMPERATURE

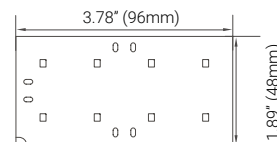


OVERVIEW

FRONT VIEW



MINIMUM CUTTABLE SIZE



SPECIFICATIONS

PHYSICAL SPECIFICATIONS

Part Number	
Model #	432000
CRI	90+
LED / Sheet	200 pieces (MCADAM)
Color Temperature	2700 K • 4100K • 5000K
Lumen Maintenance	LM 80 @ 50,000/hrs
Lumens	2430 lm / Sheet
Operating Temperature	-20 °C (-4 °F) ~ +60 °C (+140 °F)
Environment	Dry location only (indoor)
Mounting	Mounted with screws, 3M adhesive backing
Size of Sheet	9 7/16" (240 mm) (L) X 18 7/8" (480 mm) (W)
Minimum Size	Minimum cuttable size of 3.78" x 1.89"
Maximum Size	Maximum tiling up to 4 sheets (based on a 96W driver)
Accessories	Includes connection wires and hardwire cables with 2-pin connector male plug and a plug-in adaptor cable with 2.1mm/5.5mm female barrel connector

ELECTRICAL SPECIFICATIONS

Input Voltage	24V DC
Power Consumption (W/pcs)	Max 18W/Sheet
Wire Size	Connector: 2-pin connector wire, 88mm, 20AWG Power Cable: 2-pin power connector wire, 160mm, 20AWG
Wiring	20 AWG cable with 2 pin connectors and 2.1/5.5 mm DC barrel connector
Connector	2-pin connector blocks
Certification	UL listed (E346146), ROHS, CE

ACCESSORIES PACK

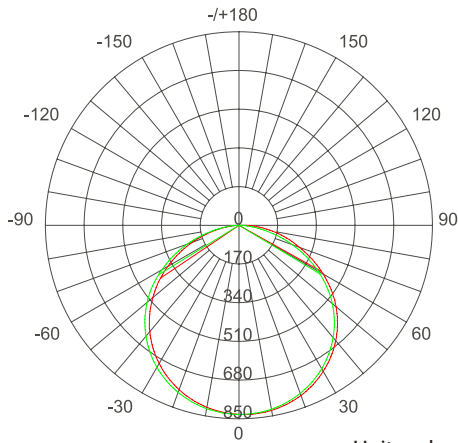
980180	Connector cable Matrix XD Accessory, 2-pin connector wire, 88mm, 20AWG	1pc
980181	Power cable Matrix XD Accessory, 2-pin connector wire, 160mm, 20AWG	1pc
Included	4 Screws per sheet	



Note:

1. UL max run refers to operating length at UL class II @96W.24V.
2. Lumen values were measured accordance to IES LM-80-08. LED chips with range tolerance of +/- 10%.
3. Each maximum-run requires a dedicated power feed from the driver. Do not extend exceed the recommended maximum run length. Max run may exceed Class 2 limits.
4. Actual wattage may be different from the calculated wattage due to voltage drop while using.
5. Do not install products in the conditions that exceed the listed ambient temperature. Exceeding the maximum ambient temperature may damage LED chips, reduce the total lamp life, luminous intensity output, and/or adversely impact color consistency.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE (50%): 117.1°

Unit: cd
 - C 0 /180, 116.8°
 - C 90/270, 117.4°

AVERAGE ILLUMINATION

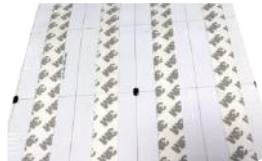
Flux Out: 1911lm

Height	Eavg, Emax	Beam Angle: 116.82°	Diameter
0.02m	549006,2079079lx		6.50cm
0.04m	137252,519770lx		13.01cm
0.06m	61001,231009lx		19.51cm
0.08m	34313,129942lx		26.02cm
0.10m	21960,83163lx		32.52cm
0.12m	15250,57752lx		39.03cm
0.14m	11204,42430lx		45.53cm
0.16m	8578,32486lx		52.03cm
0.18m	6778,25668lx		58.54cm
0.20m	5490,20791lx		65.04cm

INSTALLATION



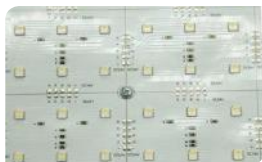
Step 1: Perform a visual inspection to make sure there are no damages to the sheet.



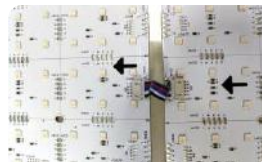
Step 2: Flip the sheet and peel off the 3M tapes.



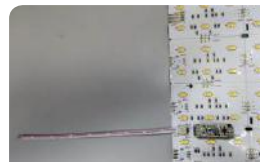
Step 3: Mount the sheet in the installation area to adhere to the installation surface. (Use screws in designated holes for extra support if needed)



Step 4: Make sure all the contacts are firm.



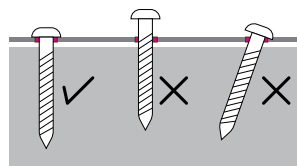
Step 5: Follow the arrow for wiring direction.



Step 6: Plug one end of the wire into the connector



Step 7: Connect the other end of the wire to the power driver.



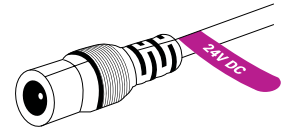
Flexible panel
 Lightbox bottom

1. Prepare products, glue, syringes and other materials.
2. Apply the glue on the terminal, the glue amount should be full and uniform, and all the terminals should be covered, and there should be no bubbles and gaps; note that the glue should not cover the lamp beads, resistors and other devices.
3. When the glue is completely solidified, power on and light it up



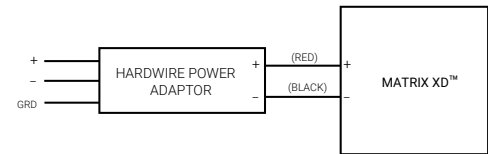
WIRING

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



WIRING WITH HARDWIRE POWER DRIVERS:

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.



ACCESSORIES AND OPTIONS

POWER ADAPTORS OPTIONS

Hardwire

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

Plug-In (Class 2)

950021	24V	24W
950024	24V	90W
950025	24V	96W
950035	24V	96W
950036	24V	60W

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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Inline Plug and Play Dimmer

970014	24V	96W
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LED Dimming Module

970001	24V	98W
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Rotary 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

MOUNTING OPTIONS

Option 1	Screws (4 pcs. included)
Option 2	3M Adhesive Back



ORDER INFORMATION

Product #	Color Temperature	Voltage	Wattage
432000	270-2700K 410-4100K 500-5000K	24-24V DC	18-18W/Sheet

EXAMPLE

432000-270-24-18

The specification number immediately above can be deconstructed as follows:

- Matrix XD Sheet; Color-Temperature-2700K; Voltage-24V; Wattage-18W/Sheet.