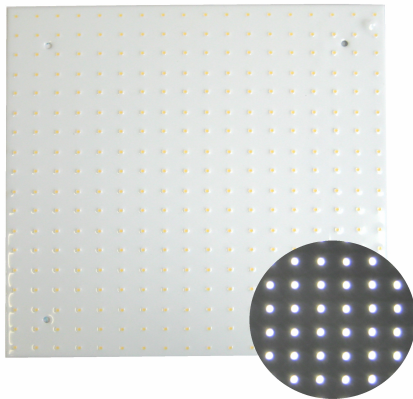


Luminux Matrix LED panel is a modular LED backlight unit with a bright LED array on a rigid and light weight aluminum circuit board. The panel delivers consistent bright light with no hot spots or shadows. The patented epoxy coating design is not only for waterproof, it also prevents the circuit board damaged from water, scratch, oxidization and erosion. With the patented epoxy coating design, the panel can be applied in indoor and outdoor environment. Luminux Matrix LED Panel offers different module sizes, power and even customizable in shapes, power and sizes. Now customers are free to create their projects without any limitation.



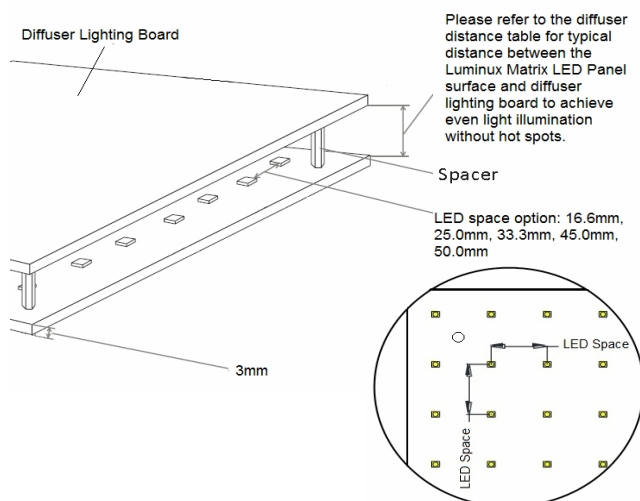
Applications

- Replacement for traditional fluorescent light
- Menu boards
- Signage boxes
- large format signs
- Brand displays backlight

Features

- Modular design
- Less than 3.5mm ultra-thin thickness design
- Slim and light weight
- Bright and even illumination
- Luminous efficiency up to 130lm/W
- Coated with patented Epoxy for waterproof, circuit protection, anti-oxidization and erosion
- Easy installation for single module or multiple modules
- Superior consistency of light quality
- Customizable in sizes, shapes and power
- Fully integrated heat sink and LED for superior reliability and durability
- Perfect for indoor and outdoor backlight applications

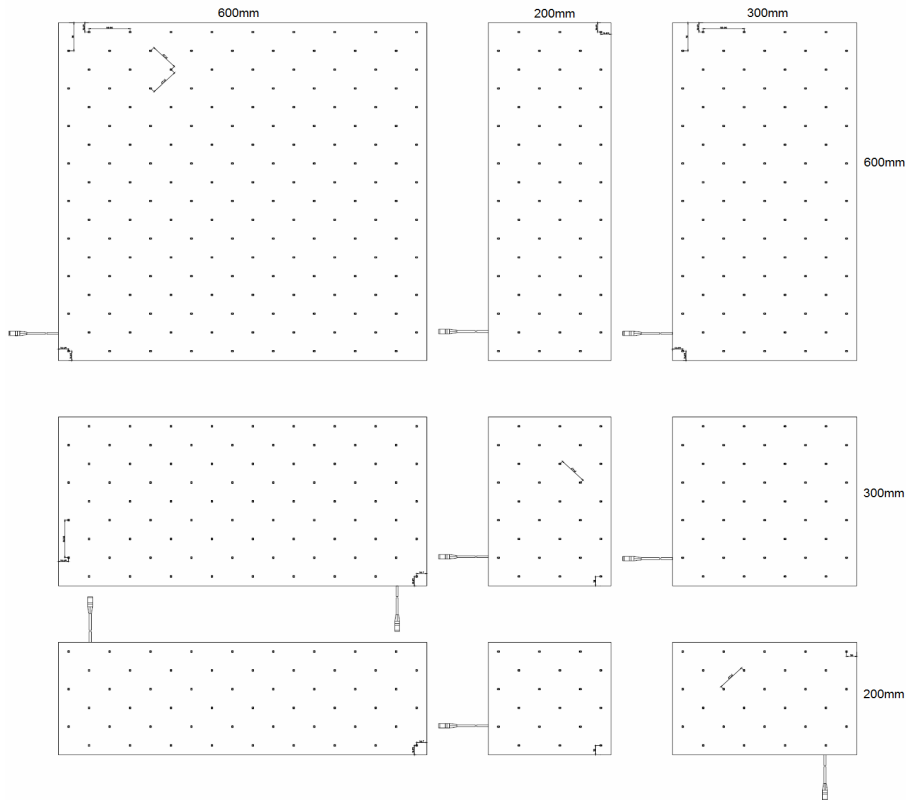
Luminux Matrix LED Panel - LED Space and Diffuser Distance Guide



LED Space Option	Min. Distance Between LED Panel & Diffuser	Lumen per M ²
a) 16.6mm	25.0mm	22770lm / M ²
b) 25.0mm	36.0mm	10800lm / M ²
c) 33.3mm	48.0mm	6000lm / M ²
d) 45.0mm	65.0mm	3770lm / M ²
e) 50.0mm	75.0mm	3000lm / M ²

* The above table is based on 12VDC, 25°C ambient temperature, parallel connection, 6000K color temperature and covered by 2447 milky acrylic diffuser board measurement.

Matrix LED Panel - Combination Example



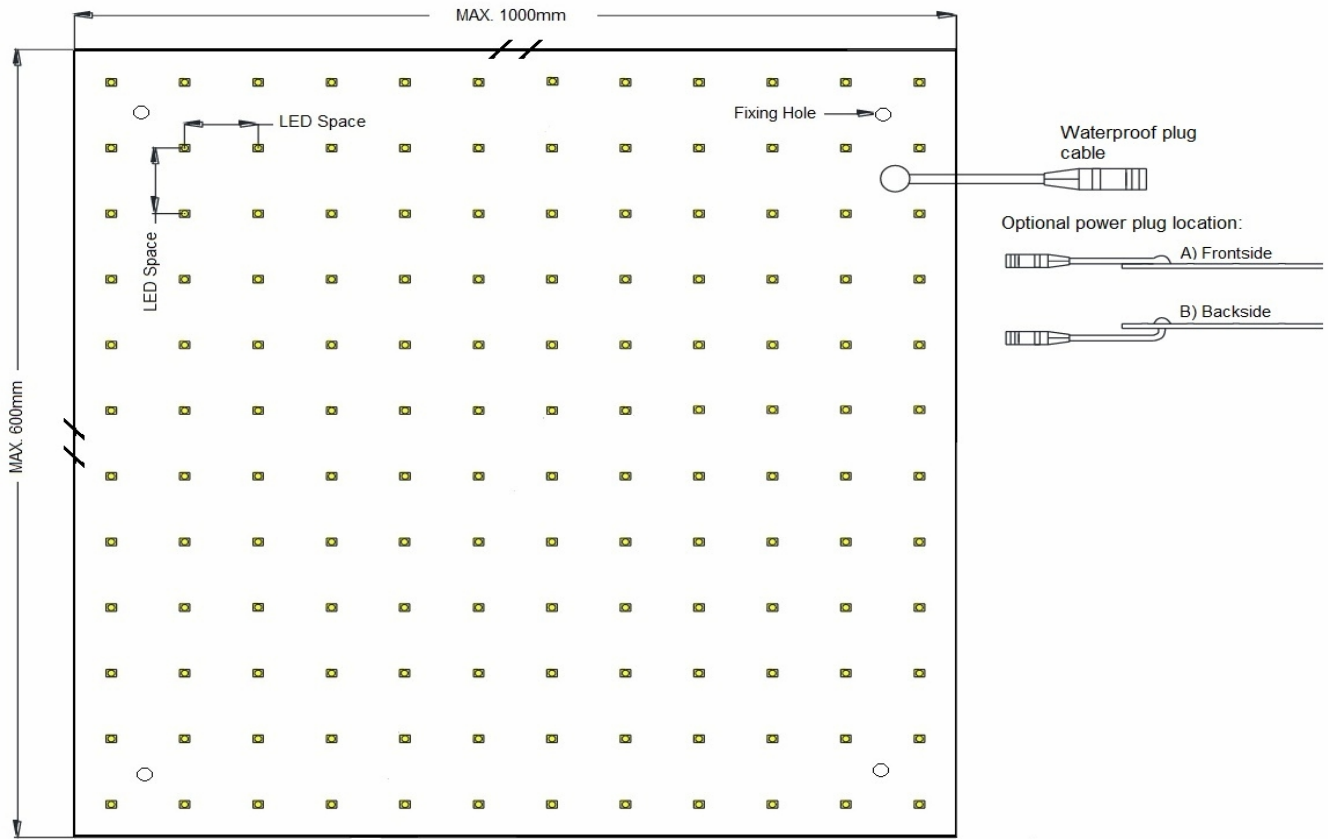
Luminux Matrix LED Panel Standard Sizes and Parameter

Model	Dimension (mm)	LED Space	No. of LED	Lumen	Input Power Watts	Color Temperature ± 250K
LMP-3-16-3030	300X300mm	16.6mm	324	2200lm	12VDC 22W	3000K, 4500K, 6000K
LMP-3-16-2050	200X500mm	16.6mm	360	2400lm	12VDC 24W	3000K, 4500K, 6000K
LMP-3-16-6060	600X600mm	16.6mm	1296	8200lm	12VDC 82W	3000K, 4500K, 6000K
LMP-3-25-3030	300X300mm	25.0mm	144	1100lm	12VDC 11W	3000K, 4500K, 6000K
LMP-3-25-20120	200X1200mm	25.0mm	384	2900lm	12VDC 29W	3000K, 4500K, 6000K
LMP-3-25-6060	600X600mm	25.0mm	576	3900lm	12VDC 39W	3000K, 4500K, 6000K
LMP-3-33-1010	100 X100mm	33.3mm	9	70lm	12VDC 0.7W	3000K, 4500K, 6000K
LMP-3-33-1030	100X300mm	33.3mm	27	210lm	12VDC 2.1W	3000K, 4500K, 6000K
LMP-3-33-1060	100X600mm	33.3mm	54	420lm	12VDC 4.2W	3000K, 4500K, 6000K
LMP-3-33-3030	300X300mm	33.3mm	81	550lm	12VDC 5.5W	3000K, 4500K, 6000K
LMP-3-33-3060	300X600mm	33.3mm	162	1100lm	12VDC 11W	3000K, 4500K, 6000K
LMP-3-33-5050	500X500mm	33.3mm	225	1520lm	12VDC 15.2W	3000K, 4500K, 6000K
LMP-3-33-6060	600X600mm	33.3mm	324	2200lm	12VDC 22W	3000K, 4500K, 6000K
LMP-3-45-2727	270X270mm	45mm	36	280lm	12VDC 2.8W	3000K, 4500K, 6000K
LMP-3-45-5454	540X540mm	45mm	144	1100lm	12VDC 11W	3000K, 4500K, 6000K
LMP-3-50-3030	300X300mm	50mm	36	280lm	12VDC 2.8W	3000K, 4500K, 6000K
LMP-3-50-6060	600X600mm	50mm	144	1100lm	12VDC 11W	3000K, 4500K, 6000K

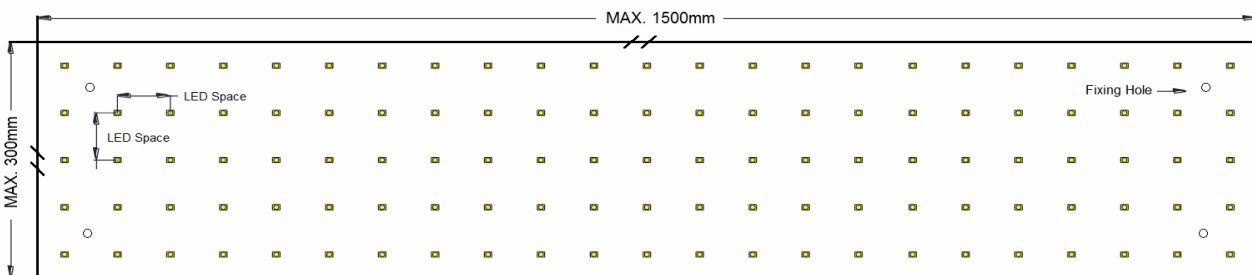
* The above table is based on 12VDC, 25°C ambient temperature, parallel connection and 6000K color temperature measurement.

Matrix LED Panel Customize Maximum Dimension

Option A:

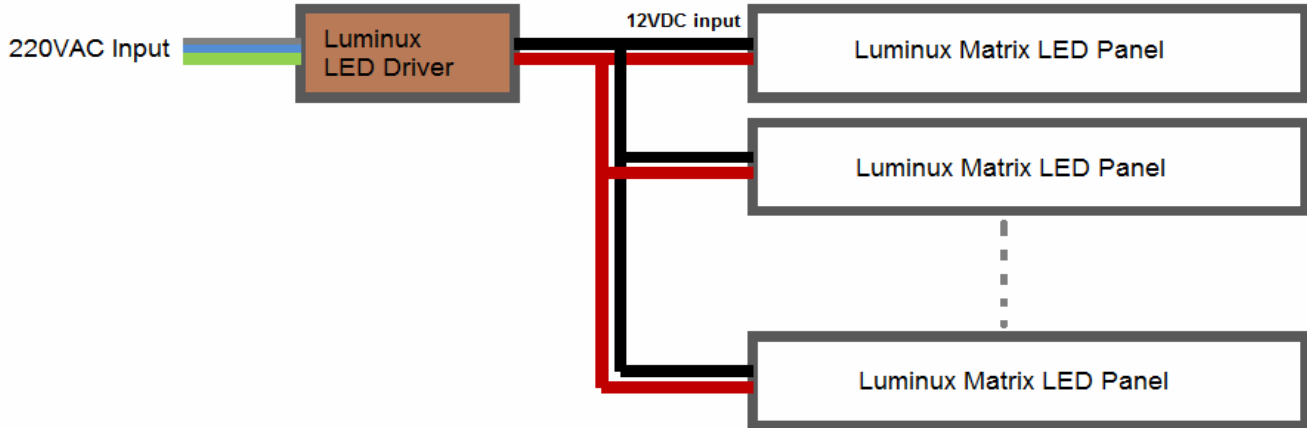


Option B:



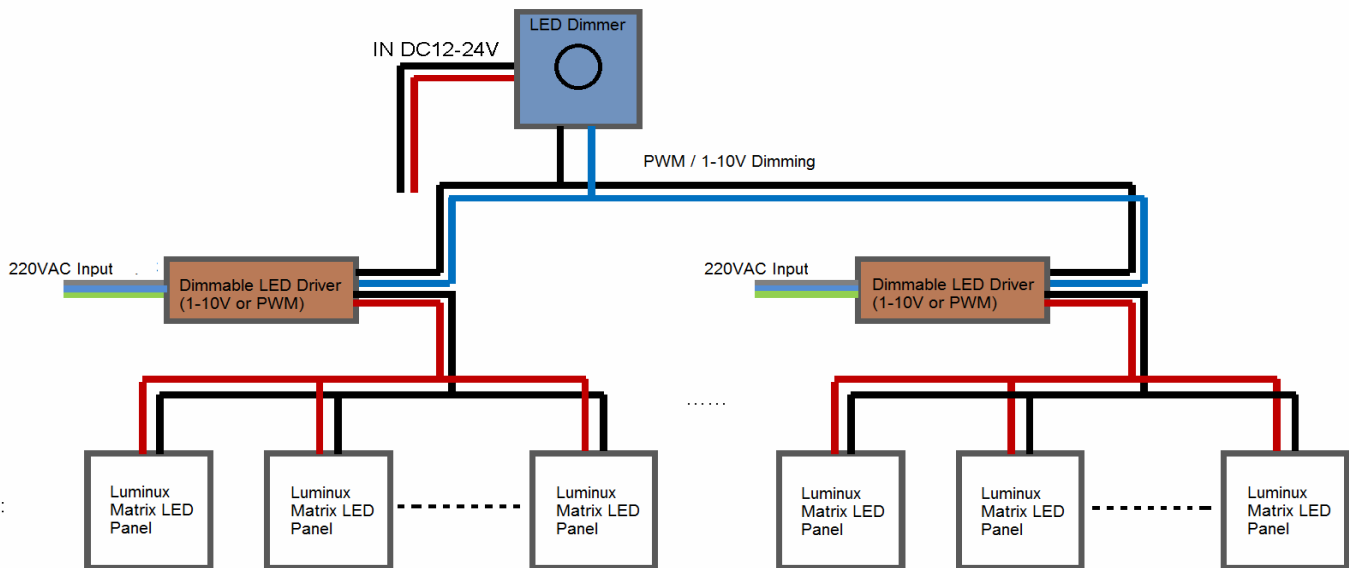
Connection and Wiring Diagram

Single and Multiple LED Panels Connection and Wiring



Caution: 1) Please calculate the total power required by the LED panels, then select the right power of LED Drivers.
2) Please contact our lighting consultant for more information

Dimming Single and Multiple LED Panels Connection and Wiring



Caution: 1) Please calculate the total power required by the LED panels, then select the right power and dimming function of LED Drivers.
2) Please contact our lighting consultant for more information.

Safety Instructions

- 1) Luminux Matrix LED Panel and LED Driver must not be mechanically and electrically stressed.
- 2) Only the qualified electrician should be allowed to perform the installation.
- 3) Correct polarity must be observed. Wrong polarity may damage the LED panel.
- 4) All LED panels are connected in parallel mode.
- 5) Use only approved 12VDC power supplies with this LED panel. All other power supplies may damage the LED's and void the warranty.
- 6) Pay attention to Electrostatic Discharge (ESD) precautions when installing the LED panel. All connection must be confirmed before turn on the power.
- 7) Damaged by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against harmful elements.
- 8) Don not bend or twist LED panel. Bending or twisting can damage LED light source.
- 9) Don't use adhesive to attach the backing panel for mounting, It is not designed to support the weight of the LED panel.
- 10) Do not glue graphics, laminate, light diffuser or any material to the panel surface as the adhesives will change light diffusion properties and damage the material.
- 11) The LED panel must not be used as support. It should be fixed in the frames and walls. Otherwise it may damage the LED panel.

Limited Warranty

The Manufacturer warrants that products manufactured shall be free from defects in materials and workmanship under normal use and proper installation for a period of one (1) year from the date of the original purchase (except power adaptors and dimmers which carry their manufacturer's standard warranty). The exclusive remedy and entire liability under this warranty will be for repair or replacement at Manufacturer's option.

What the warranty does not cover

The above warranty shall not apply to product defects resulting from:

- (a) Improper installation or maintenance
- (b) Misuse, neglect or accident
- (c) Damage during shipping or unpacking
- (d) Damage from hazardous environment
- (e) Use of power adaptor with supply voltages other than that for which it is specified
- (f) Use of power adaptors not tested and recommended by the manufacturer
- (g) High voltage surges
- (h) Electrostatic discharges
- (i) Operation outside the product's specification
- (j) Failure to follow product instructions

The warranty is void if products are disassembled, modified, or improperly used or not fully paid within payment terms. The Manufacturer shall not have any obligation to repair or replace product until the purchaser returns defective product to the Manufacturer. Any replacement product may be either new or like-new, and may contain remanufactured parts, equivalent to new in performance. Returned products are subject to inspection and evaluation at the Manufacturer's facility. Under no circumstances, shall the Manufacturer be responsible for repair or replacement at the purchaser's facility or at any other installation site at its own cost.