Illuminating
Surfaces

bright green technology

Illuminating Surfaces

Illuminated surfaces are a critical part of many architectural lighting projects. There are many considerations: the material that you're using; the brightness expected; interfaces with control system; ease of installation; all with the aim of ensuring even illumination.

LED Light Panel is a great option for illuminating most surfaces, however its always worth considering alternatives which might provide better illumination, be easier to install and be more cost effective if you have depth available.

We have experience in a variety of different materials and below you can see some examples of past projects that we've worked on.

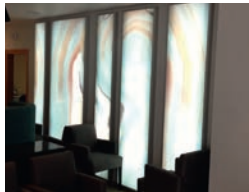If you want to explore the best lighting systems for your project please call us on +44 (0)1932 355 221.

Stone • Glass • Acrylic • Fabric • Onyx • Resin • Marble

| Walls | Art | Bars | Graphics | Counters |

Creating the right light

We understand that simply placing light behind a surface may not meet the aesthetic demands of a project.

We help tailor your entire lighting system based on our extensive knowledge of illuminating surfaces. For example:

- Custom diffusion methods to give better lighting uniformity
- Lighting control to balance between naturally lighter and darker sections of a surface
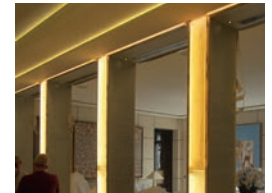- Choosing the best colour temperature for any given material and/or environment.

2700°K   3000°K   4000°K   5300°K   6500°K

RED   BLUE   GREEN   RGB   DYNAMIC
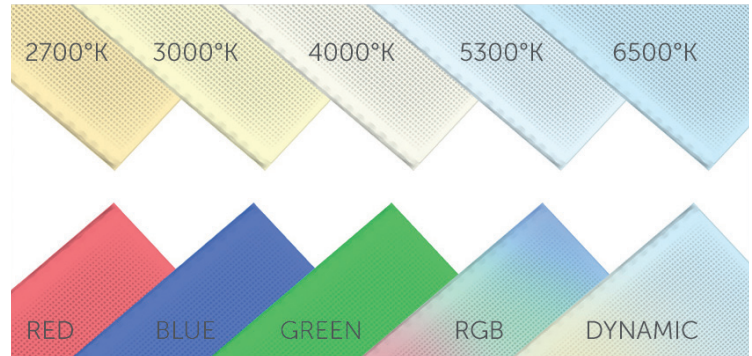
Displays   Facades   Lifts   Floors   Columns

Depth 225mm
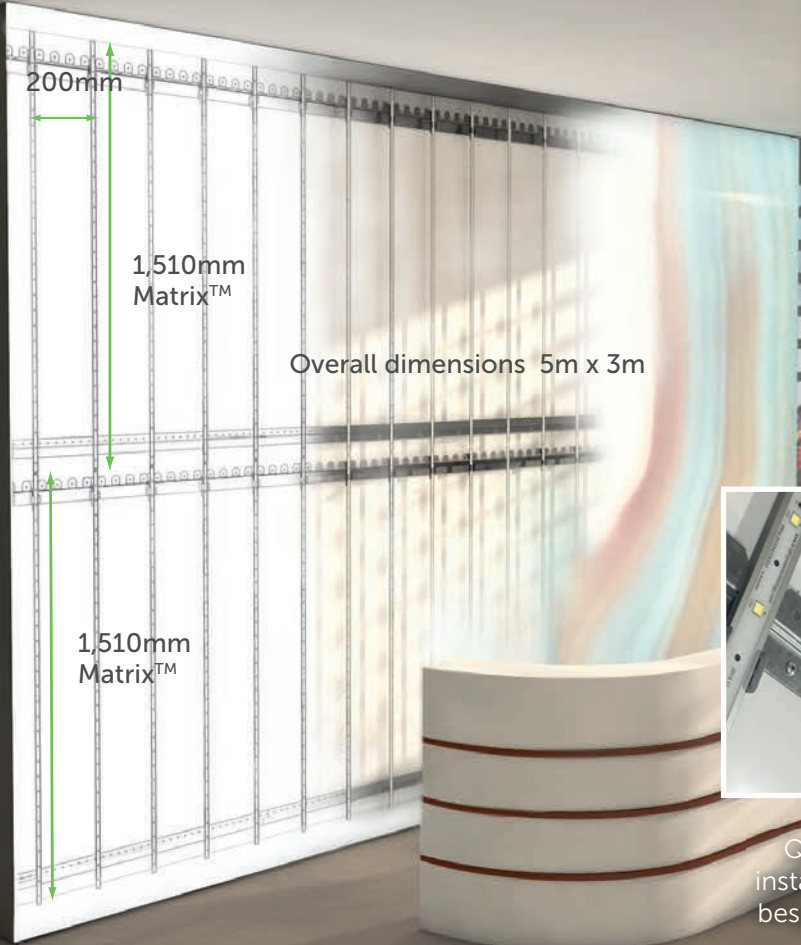
200mm

1,510mm Matrix™

Overall dimensions 5m x 3m

1,510mm Matrix™

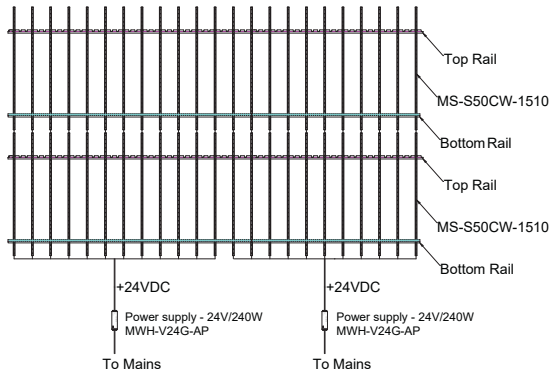Quick and easy installation using the bespoke rail system

Bright Green Matrix™

Bright Green Matrix™ is a modular, linear LED system that's suitable for projects that have depth. The more depth you have available behind the surface, the greater the distance you can leave between the LEDs making it more economical on cost and power.

LED & Energy Information

DIMENSIONS	LAYOUT (NO. OF VERTICALS)		POWER		LUMENS/SQM	
Box depth	225mm	500mm	225mm	500mm	225mm	500mm
3 x 2m	14	6	163W	138W	2436lm	2088lm
5 x 3m	23	10	442W	384W	3202lm	2784lm
8 x 6m	54	24	1523W	1104W	2349lm	2088lm

Example Layout

Top Rail
MS-S50CW-1510
Bottom Rail
Top Rail
MS-S50CW-1510
Bottom Rail

+24VDC
Power supply - 24V/240W
MWH-V24G-AP
To Mains

+24VDC
Power supply - 24V/240W
MWH-V24G-AP
To Mains

Key Benefits

- Lightweight, modular design makes for quick, easy installation
- 5 year warranty
- IP67 rated – suitable for outdoor use
- Operating temperature range of -30 to 85°C make it suitable for climates with temperature extremes
- The resin coating offers mechanical protection making this system extremely robust.
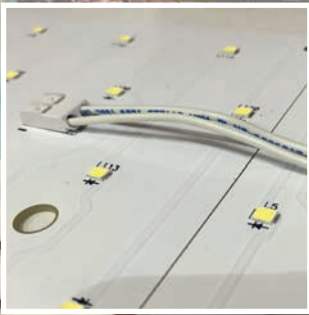
Depth from 150mm

Depth 35mm
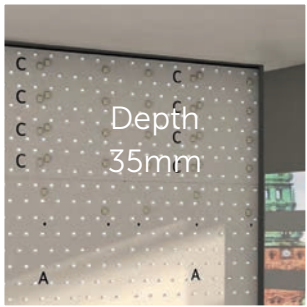
Panel C 300mm

312mm

Panel A 300mm

Overall dimensions 5m x 3m

Low profile, easy to use connector that accepts solid or stranded cable

Bright Green Grid

Bright Green Grid has been specifically designed to illuminate areas that require a high level of brightness but with a restricted depth. Bright Green Grid is flame retardant making it more suitable for environments that have specific fire regulations.

LED & Energy Information

DIMENSIONS	NUMBER OF PANELS				POWER	LUMENS/SQM
	A	B	C	D		
3 x 2m	60	0	20	0	392.6W	6863lm
5 x 3m	144	27	48	9	1036.4W	6836lm
8 x 6m	494	57	26	3	3319.9W	6904lm
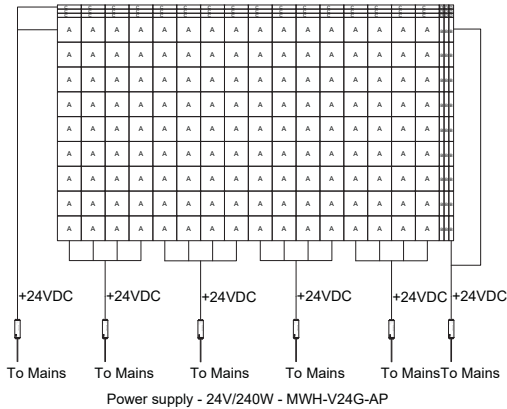
Key Benefits
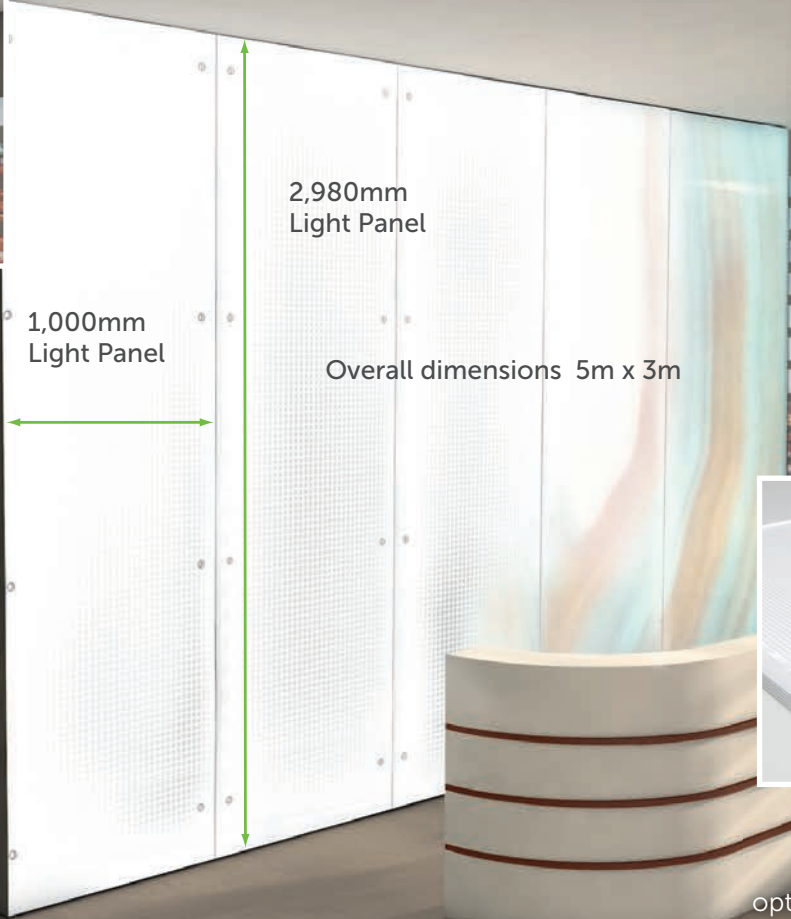
- Bright, even illumination even at depths from as little as 50mm
- 5 year warranty
- Class 0 fire rating makes it suitable for environments with fire regulations
- Modular design allows installation in large areas.

Example Layout

+24VDC +24VDC +24VDC +24VDC +24VDC +24VDC

To Mains To Mains To Mains To Mains To Mains To Mains

Power supply - 24V/240W - MWH-V24G-AP

Depth from 35mm

Depth
10mm

1,000mm
Light Panel

2,980mm
Light Panel

Overall dimensions 5m x 3m

Each panel has a
custom grid that
optimises light distribution
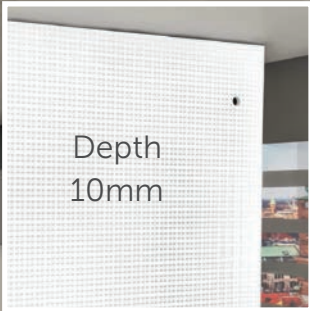
Bright Green LED Light Panel

LED Light Panel differs from the other options discussed here as it is an edge lighting system,
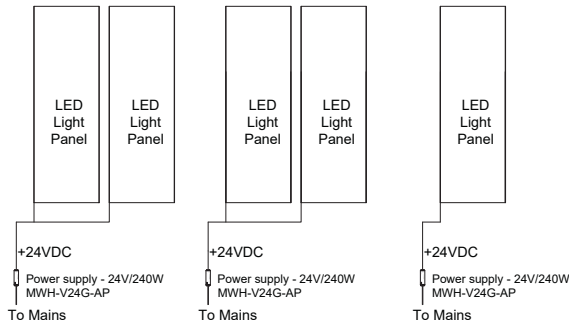not a backlighting system. Edge lighting is ideal when your project has very limited depth.

LED & Energy Information

DIMENSIONS	NUMBER OF PANELS	POWER	LUMENS/SQM
3 x 2m	3 x 2m x 1m panels	240W	4800lm
5 x 3m	5 x 3m x 1m panels	600W	4800lm
8 x 6m	16 x 3m x 1m panels	1920W	4800lm

Key Benefits

- Extremely low profile design allows illuminations when there is little or no depth available
- Available in a variety of colour temperatures including dynamic white and RGB

Example Layout

| LED Light Panel | LED Light Panel | | LED Light Panel | LED Light Panel | | LED Light Panel |

+24VDC
Power supply - 24V/240W
MWH-V24G-AP
To Mains

+24VDC
Power supply - 24V/240W
MWH-V24G-AP
To Mains

+24VDC
Power supply - 24V/240W
MWH-V24G-AP
To Mains

Depth from 10mm
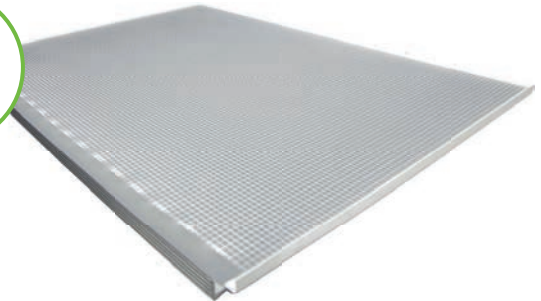
Control

Control can be integrated and retrofitted into all of our LED systems, ranging from simple stand-alone dimming to integration with existing Building Management Systems (BMS).

We can supply bespoke systems that allow:

- Remote access

- Colour changing – RGB and Dynamic White

- Dimming – 0-10v, Dali and DMX

- Timed operation

- Integration of switches and sensors

LED Light Panel with Dali module to enable control though existing BMS

Additional Dali control supplied for an existing illuminated reception counter, allowing this to also link to the BMS

Quick reference guide

The table below will help to identify which product is most suited to a particular project, taking into account factors like available depth, fire performance, the install environment and cost.

✔ = good   ✔ ✔ = better   ✔ ✔ ✔ = best

	MATRIX	GRID	LIGHT PANEL
Depth	225mm	35mm	10mm
Uniformity	✔ ✔ ✔	✔ ✔ ✔	✔ ✔
Ease of installation	✔ ✔ ✔	✔ ✔	✔ ✔
Brightness	✔ ✔	✔ ✔ ✔	✔ ✔
Robustness	✔ ✔ ✔	✔	✔
Price	✔ ✔ ✔	✔	✔ ✔
Warranty	5 years	5 years	3 years
Outdoor use	IP68	IP20	IP54
Class 0 fire rating	No	Yes	No
Temperature extremes	✔ ✔ ✔	✔ ✔	✔
Colour temperatures available	✔ ✔	✔	✔ ✔ ✔

TEST US

The best way to choose the right product is to test it. We're always happy to help and advise you.

LET'S TALK

If you want to put light right at the heart of things, talk to us about how we can make your next project shine.

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Bright Green Technology

Bright Green Technology specialises in LED systems that dramatically improve the quality and performance of backlit media, illuminated signage, retail displays and architectural features.

We've worked in the most iconic locations for the biggest companies and won their trust for our product quality and customer support.

Discover	Define	Design	Discuss	Deliver
We take time to understand your business	We work with you to determine your real objectives	We create solutions and packages that suit your objectives	Sound, senior advice is always on hand	Every project is evaluated against agreed success measures and ROI

Find out how we can help your next project shine

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