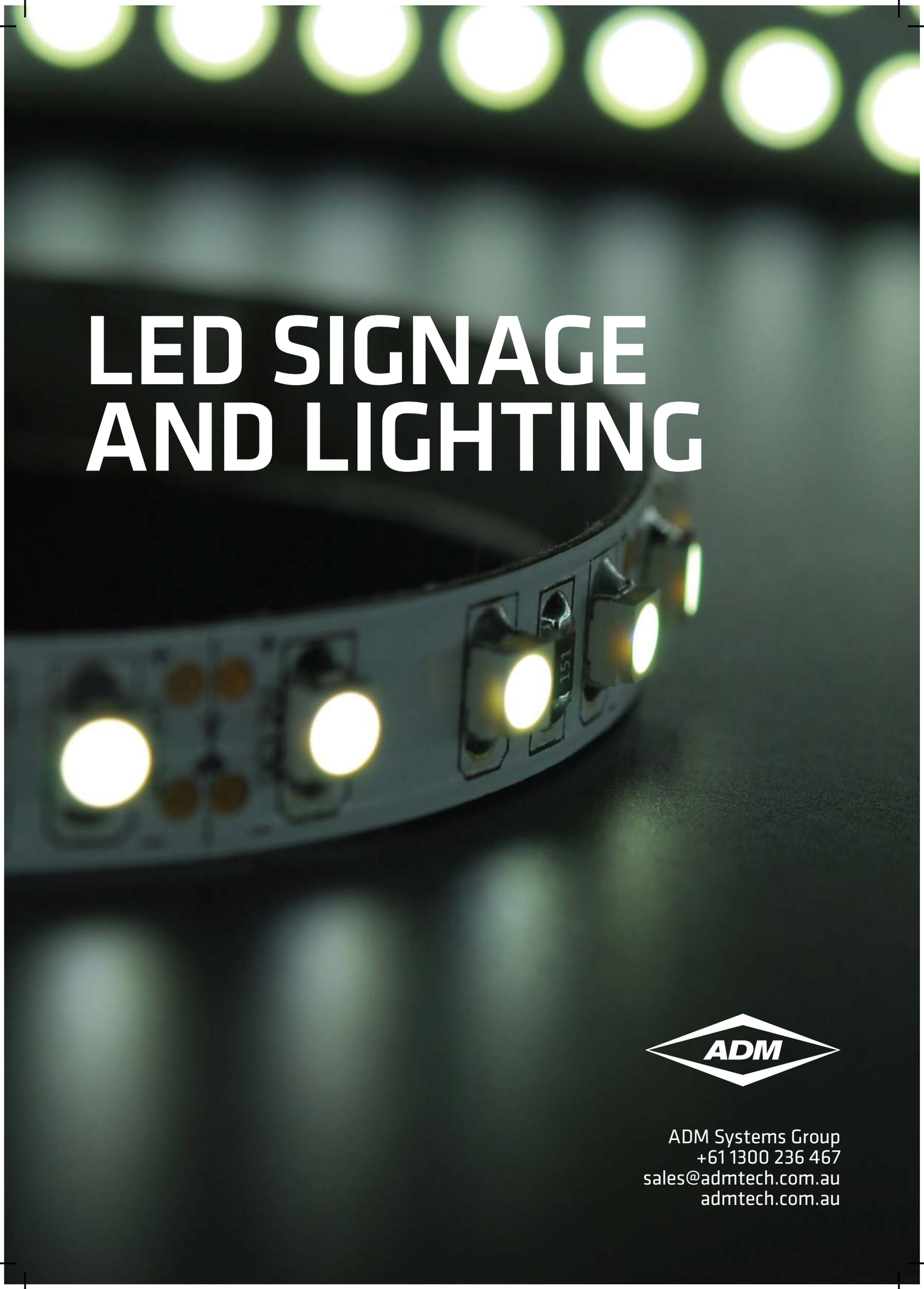


LED SIGNAGE AND LIGHTING

ADM Systems Group
+61 1300 236 467
sales@admtech.com.au
admtech.com.au

ABOUT US

WHAT WE DO

We support customers across Australia with products such as industrial power supplies, LED drivers, position sensors, pressure sensors, load cells, and encoders, supporting many different industries.

Our customers include businesses in the industrial automation, medical and pharma, F&B, research and design, and even higher education, as well as lighting specialists and original equipment manufacturers.

But it doesn't stop at stocking and supplying products. We offer a wide range of services Australia wide, delivered by ADM's highly dedicated and professional technical team.

Because it matters to you.

We understand that it matters that you can quickly get a product to your door, and that you need to also get that product to your door at a fair and reasonable price.

We understand that technical support matters, which is why we keep our technical team up to date with the latest product information.

We understand that you want to partner with a supplier that is focused on what matters to you.

WHO WE ARE

ADM Systems Pty Ltd is a family run group of businesses, first established by our Managing Director, Glenn Bates in 1986, and now led by our CEO, Kristin Brown.

Since then we have grown to become Australia's largest distributor of MEAN WELL Power Supplies, Eurotherm Process Control and Data Management Solutions, Industrial Transducers and Sensors, PCA Encoders, Industrial Connectors, and Test & Measurement Instrumentation suitable for a wide range of applications.

ADM has a strong commitment to holding stock. This means you know the product is available when you need it. We also offer volume pricing and scheduled ordering to original equipment manufacturers, and projects that need to order in high quantities, as well as convenient online ordering services for small scale enterprises and retail customers. Our technical staff undertake regular factory training and have close working relationships with our leading suppliers, so that they are up to date with the latest technologies available. This ensures you have the best performing position transducers, load cells, LED drivers and all other components for your application.

ADM QLD Team

ADM VIC Team

Jonathan Brown, General Manager and Kristin Brown, CEO, ADM

CONTENTS

CONTROL

POWER

ILLUMINATION

LOCAL STOCK & SUPPORT

ADM HAS ESTABLISHED A SOLID REPUTATION IN AUSTRALIA OVER THE PAST 35 YEARS AS A TRUSTED PROVIDER OF HIGHLY RELIABLE LED DRIVERS, LIGHTING CONTROL DEVICES, AND ACCESSORIES. OUR PRODUCTS ARE KNOWN FOR THEIR DEPENDABILITY AND AFFORDABILITY.

ADM's primary objective is always customer service. This means prioritising meeting the needs and expectations of our customers above all else. To achieve this objective, ADM has worked closely with our suppliers for over three decades. Carrying stock locally, providing application-specific advice, and offering complete solutions are all part of our service offering. ADM holds stock locally, so that the item you want is readily available when you need it. This allows for quicker delivery times and the ability to respond to your needs more rapidly. Providing application-specific advice means that ADM offers expertise and guidance tailored to your specific needs and applications. This ensures that you receive the best advice possible and can make informed decisions.

LED Controllers

LED controllers enable you to customise your LED lighting features, like colour, brightness, timing, and effects through associated programming apps installed in your device. There are different kinds of LED controllers for various applications that include home lighting, commercial lighting, events and staging lighting, as well as custom-projects lighting.

Contact ADM if you need assistance in selecting the right LED controller for your applications.

PHILIPS WiZ PRO Bridge Box

Transform traditional lighting into smart lighting

The WiZ Pro Bridge Box serves as a gateway designed to enable smart lighting control for home and commercial use. Scan the QR code to browse the range.

WiZ Pro Bridge Boxes can:

- **Enable cloud-based control of lights across multiple locations**
- **Allow wireless dimming**
- **Connect through Wi-Fi and Bluetooth**
- **Save electricity costs through its scheduling feature**

WiZ Pro DW Bridge Box I 12-24V

Compatible with constant voltage LED driver to enable dimming control features.

WiZ Pro TW Bridge Box I 12-24V

Compatible with constant voltage LED driver to enable tunable white control features.

WiZ Pro RGBTW Bridge Box I 12-24V

Compatible with constant voltage LED driver to enable colour and tunable white control features.

Available at ADM. Call us at 1300 236 467 or sales@admtech.com.au

Control Freak SLAMMO

CONTROL FREAK
Making Light Work

Elevating lighting precision

PWM Decoder / LED Dimmer

The Control Freak SLAMMO V5 PCBA is a compact smart LED dimmer for constant voltage LEDs, supporting DMX512, DALI, DSI, and RDM protocols. It has high-capacity power management that supports up to 600W at 24VDC or 300W at 12VDC.

Adaptable

Interfaces with DALI and DMX seamlessly

Durable

Optional IP67-rated enclosure available

Precise

Uses 32-bit calculations for 16-bit dimming for smooth transitions

Designed and made in Australia.

Available in IP67 version: plastic enclosure with clear cover and transparent cable glands.

Sunricher DALI and DALI-2 LED Drivers and Lighting Controllers

Digital Addressable Lighting Interface or DALI, often known as the technology behind lighting control, is first and foremost, a world-wide standard. The DALI standard enables open, two-way communication between lights, sensors, and other network lighting control devices.

What does it mean for you?

With the DALI standard, consumers and builders have the flexibility to choose their lighting preferences from different manufacturers without worrying about compatibility.

DALI-2, on the other hand, is a certification program built upon the DALI protocol, which offers improved interoperability, and added features and commands, including but not limited to dimming, colour control, and emergency lighting.

Sunricher DALI Dimming Range and DALI-2 LED drivers and lighting controllers are available at ADM.

DALI

SUNRICHER SR-2309FA7 and SR-2309FA3 - RGBW DC LED Controller DALI

DALI-2

SUNRICHER SR-2304BEA DC LED Dimmer DALI-2 DT6 12-36VDC Input 4x8A Output

SUNRICHER SR-2309PRO-5C DALI-2 RGBCW + CCT LED Controller

LED Power Repeaters

Enhance the power output capabilities of all Sunricher's single-colour and RGB controllers. It enables the expansion of LED connections by up to threefold with the addition of just one more power repeater.

SUNRICHER SR-3001(WP) Waterproof Power Repeater/Amplifier Input/Output 12-36VDC - 4 Channel 5A CV IP67

Phase-Cut Dimming

"Cuts" or controls the flow of AC power into the system to enable dimming.

SUNRICHER SR-2303P (4 IN 1) DALI+Push+Phase Cut+0/1-10V LED Dimmer CV 12-48VDC 20A PWM output

Sunricher DALI-2 Relay Module

Capable of switching both AC and DC loads. The DALI relay module enables integration of existing loads which do not have DALI input into DALI circuit, and switch the loads on and off.

SUNRICHER SR-2701S-DT7 DALI-2 DT7 ON/OFF 240VAC Relay 300W Puck

Contact ADM for technical assistance: 1300 236 467 | sales@admtech.com.au

SUNRICHER

DMX512 and RDM RGBWW Decoder

Versatile. Compact. Powerful.

Sunricher SR-2108B-M5-5 Centralised lighting control system that gives you complete control over your lighting system.

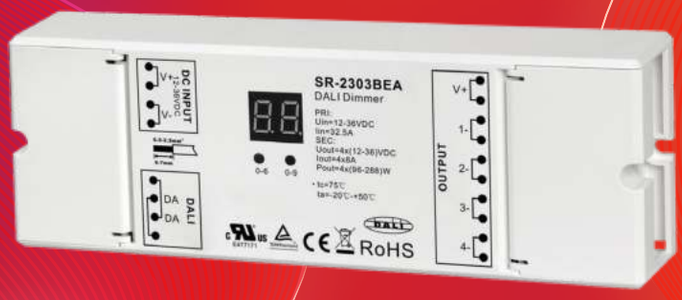
- Decoder and master
- Supports DMX512, DMX512(1990), DMX512-A, and RDM V1.0 standards
- Equipped with 5 channels capable of an 8A constant voltage output
- Supports 12VDC and 24VDC inputs
- Offers various DMX connectivity options e.g. XLR, RJ45, and Screw DMX

Sunricher DALI Dimming Range and DALI-2 LED drivers and lighting controllers are available at ADM.

SUNRICHER

Controllers

Made for effortless lighting control



DALI to TRIAC

DALI Converters
(Single colour, TW, RGBW)

PUSH to DALI

DMX Converters

ADM

admtech.com.au

- DMX decoders stocked
- Multiple PWM output channel options
- 12V-48V DC input range
- Constant voltage 5x8A output
- Constant Current 5x350mA / 5x700mA output
- Settable output PWM 500Hz~35KHz
- Settable 8bit or 16bit output resolution
- Multiple connections – RJ45, XLR or Screws

Contact us on 1300 236 467 or email sales@admtech.com.au

How to Troubleshoot DMX Lighting Issues and Prevent Reflections

DMX512, commonly referred to as DMX, is the most common digital communication protocol used to control stage lighting. DMX512 uses a data signal to manage lighting, where the signal travels through a DMX cable from the DMX control console to the connected light fixtures. A single controller can control up to 512 channels, with each channel capable of receiving a value between 0 and 255. This enables precise control over lighting intensity and effects.

DMX systems have specific limitations to ensure reliable signal transmission. According to the EIA-485 standard, a single DMX segment should not exceed 300 meters in length for optimal performance at the standard 250 kbps baud rate. Additionally, each segment should connect no more than 32 devices before requiring a splitter, such as the Control Freak DMX Splitter.

When working with DMX lighting systems, especially in larger venues or installations with long cable runs, technicians often encounter a problem known as "reflection." This issue, while common, can be a real headache for lighting professionals.

What are Reflections?

Reflections are like echoes of the electrical signal that bounce back along the cable. These echoes can interfere with the original signal, causing problems such as:

- Flickering lights
- Missed commands
- Erratic behaviour of lighting fixtures

Reflections typically occur when a signal encounters an impedance mismatch in the cable. Impedance, which combines resistance, inductance, and capacitance, affects how well a conductor allows current to flow. When a signal travels through a conductor and reaches a point of sudden change—like the end of a cable—part of the signal is reflected back instead of being transmitted.

Even in well-made cables, the abrupt end creates an impedance mismatch that can cause reflections.

To minimise this issue, engineers use termination resistors that match the cable's characteristic impedance. This allows the signal to be absorbed rather than reflected, preserving signal integrity, and preventing distortion or data errors in high-speed systems.

DMX512 SPLITTER REPEATER LIGHTNING

It's also important to select the proper cable for DMX systems. DMX cables are designed with a characteristic impedance of 120 ohms, which is essential for maintaining signal integrity and can help minimise reflections. Standard DMX512 requires twisted-pair construction, shielding, and low capacitance, designed for RS-485.

The twisted-pair design helps cancel out electromagnetic interference, while the shielding provides additional protection against external noise. This combination ensures that the digital signals controlling the lighting remain clear and strong, even over long distances.

DMX Lighting Control Systems

Integrated DMX devices such as Control Freak's SLAMMO V5, help reduce reflection issues by including built-in termination resistors. This feature simplifies setup for lighting technicians, as there's no need for external resistors, ensuring proper termination right from the start. The SLAMMO V6 DMX can also be supplied with a termination resistor.

Additionally, Control Freak offers advanced splitters and repeaters, such as the Splitter V2 Lightning, designed specifically for DMX lighting systems. These devices act as signal repeaters, effectively reducing the length of stub lines and helping to maintain signal integrity over long distances.

SLAMMO V6 DMX

By boosting and regenerating the DMX signal, they minimise potential reflections and ensure reliable performance in complex lighting setups.

Questions? Contact us:
1300 236 467
sales@admtech.com.au

POWER SOURCE

DMX Driver

COMING SOON

- **Unique IP66 rated DMX512**
- **Single 12V and 24V available**
- **RGBCW (5 Channel) available in 24V model**
- **With Flex and AU plug for ease of installation**
- **DALI-2 DT8 (depending on model)**
- **80W ~ 300W (depending on model)**
- **Weatherproof**

LED Drivers

ADM distributes a wide range of LED drivers, both for indoor and outdoor use. Our product range includes brands from MEAN WELL, Philips, Power Source, and more.

Contact our team at sales@admtech.com.au so we can help select the right LED driver for your applications.

PHILIPS

Xitanium LED Drivers

Philips Xitanium LED drivers are leading the way in terms of reliability. For over 125 years, Philips has become one of the world's trusted brands for providing high-quality and energy-efficient lighting products.

Available with or without fitted power cord and AU plug.

Contact ADM if you need assistance in finding a suitable LED driver for your applications.

1-10V Dim Range

- Constant Voltage 24VDC
- Controllability via the 1-10V protocol, including dim to OFF functionality
- Power Outputs: 30W to 250W

DALI DT6 Range

- Constant Voltage 24VDC
- DALI-2 DT6 compatibility with 1-100% dimming range
- Power Outputs: 30W to 200W

Non-Dim Range

- Constant Voltage 24VDC
- Power Outputs: 30W to 250W

Constant Current 54V Range

- Adjustable output current via the Philips MultiOne configurator or external resistor
- Multiple versions including DALI dimmable, trailing-edge dimmable, and fixed-output options

Scan the QR code to visit our web store

XLG LED Drivers for LED and LED Neon Signs

MEAN WELL's XLG series LED drivers give lighting and signage designers MEAN WELL quality at a very affordable price.

The XLG LED drivers have been designed using the latest components and automated manufacturing techniques to provide a highly reliable yet compact design.

They are available with power outputs ranging from 75W to 320W. ADM stocks the 12V and 24V constant voltage models, as well as offering the constant current models as special-order items.

These LED drivers have an IP67 ingress protection rating, which makes them ideal for use in outdoor signage, such as bus stop lightbox displays, shop front signs, and any other signage that may be exposed to the elements. It should be noted that LED drivers

should never be mounted in direct sunlight.

The MEAN WELL XLG LED drivers feature active Power Factor Correction (PFC) and offer a high level of efficiency. They have built-in safety protections including short circuit, over temperature, over current and surge protections up to 6kV.

If you would like further information on the MEAN WELL XLG series of LED drivers, please do not hesitate to contact our team!

sales@admtech.com.au

1300 236 467

ADM is the primary distributor or MEAN WELL products in Australia

- **Stocked DALI-2 LED drivers and controllers**
- **Constant voltage and constant current options**
- **Fully programmable Mean Well DALI master**
- **Options for retrofit or new builds**

MEAN WELL

PWM Series

40W – 200W

- **12V, 24V, 36V and 48V in stock**
- **Constant voltage PWM style output**
- **Built-in 3 in 1 dimming function (0~10VDC, PWM signal or resistance, dim-to-off)**
- **Weatherproof IP67**
- **Available with DALI-2 dimming**

MEAN WELL LED Drivers HLG, XLG and ELG Series

HLG Series – 40W~600W

- Premium LED Driver
- 12V, 24V and 48V in stock
- 1-10V dimming options
- 12V and 24V with Flex and AU plug
- Weatherproof IP67

ELG Series – 75W~240W

- Standard LED Driver
- 12V, 24V and 48V in stock
- 1-10V and DALI dimming options
- 12V and 24V with Flex and AU plug
- Weatherproof IP67

XLG Series – 75W~320W

- Economical LED Driver
- Best value for money
- 12V and 24V in stock
- With Flex and AU plug
- Weatherproof IP67

POWER SOURCE LED Drivers

BNV Series

ADM stocks a range of Power Source constant voltage LED drivers. These are straightforward no fuss, non-dimming LED drivers for indoor use only, and are perfect for projects that are price sensitive.

- Output Voltages: 12V to 24V
- Power Outputs: 15W to 75W
- Non-dimming
- Constant Voltage
- IP20

PDV Series

The Power Source AC-dimmable LED driver series provides exceptional performance across most AC dimmer brands and models providing fine control down to OFF for most applications. The 30W and 75W models are for indoor use with IP20 protection, while 100W models and above are rated at IP66 for outdoor (undercover) applications. This recently upgraded and fully certified series now has a 20kHz PWM output, and are classed as flicker-free, which makes it suitable for most green-energy rated installations.

- **Output Voltages: 12V, 24V, 48V (PDV-75 only 12V and 24V)**
- **Power Outputs: 30W to 360W (depending on model)**
- **RCM approved**
- **AC/Mains/Triac/Phase Dimmable**
- **IP20 (models below 100W)**
- **IP66 (models 100W and above)**

Illumination

Design your lighting projects however you want. We understand that not everything is available off-the-shelf, that's why we offer customisation services that allow you to choose the LED style and material you need to bring your envisioned end-product to life. Let us know what you need, and we will do the rest.

ADM has an extensive range of LED strips, modules and neon flex for all your lighting and signage needs. We stock a variety of types and models, which are mostly available with less wait times.

Contact our team at 1300 236 467 or email us at sales@admtech.com.au.

Product Specification and Combination Chart

LED	Package	3528 / 5050 / 2835 / 2216 / 3014 / 4040 / 3535 / 4020 / 5630 / 3030
	Brand	Nicha / Osram / Samsung / Seoul / Philip / Bridgelux / Guangmu
	Voltage	3 / 6 / 9 / 18 / 24V
	Power	0.06 / 0.1 / 0.2 / 0.5 / 1W
	Color	White / Red / Green / Blue / Yellow / Orange / Amber / Pink / Purple / CCT / RGB / RGBW / RGBA / RGBCCT / RGBACCT / Special Color
	CCT	1600 / 1800 / 2000 / 2200 / 2400 / 2700 / 3000 / 3500 / 4000 / 5000 / 6500 / 7500 / 10000K
	CRI	80+ / 90+ / 95+ / 97+ Full-Spectrum
	SDCM	1 / 2 / 3 / 5 step
PCB	Base Material	Flex / Rigid FR4 / Rigid Aluminum
	Cover Film Color	white / brown / black / gray / red / green / blue
	Voltage	5 / 12 / 24 / 36 / 48VDC / 120VAC / 230VAC
	Width	3.5 / 4 / 5 / 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 25 / 240 / 300mm
	Copper Layer	1 / 2 layers
	Solder Pad Surface Treatment	OSP(Organic Solderability Preservatives) / ENIG(Immersion Gold) / Immersion Tin
	Copper Thinkness	1 / 2 / 3 / 4oz (1 oz≥35um)
	Shape	Linear / Square / Rectangle / Circle / Annular / Irregular
Waterproof	IP Rating	IP20 / IP54 / IP54 Thin / IP54 Plus / IP65 / IP67 / IP67 Plus Thin / IP67 Plus / IP68
Connector	Type	PCB to PCB / Cable to PCB
	Pin QTY	2 / 3 / 4 / 5 / 6 pins
	Match PCB Width	5 / 8 / 10 / 12mm
	Max. Density	≤90LED/M / ≤120LED/M / ≤240LED/M / ≤300LED/M
	IP Rating	IP20 / IP54 / IP65
Aluminum Profile	Color	Silver / Black / White
	Cover	Milky / Transparent / Black / Prismatic
	Match PCB Width	3.5 / 4 / 5 / 6 / 8 / 10 / 12 / 14 / 16 / 18 / 20 / 25 / 40 / 50 / 60mm
	Installation	Surface mounted / recessed mounted / corner mounted / suspension mounted
Driver	Type	Desktop / wall-mount / industrial / LED exclusive in C.V. & C.C.
Controller	Control Method	RF / DALI / triac / bluetooth / WIFI / 0-10V / 1-10V / APP
Warranty		3 / 5 years
Certification		CE / ErP / CB / ENEC / RCM / CCC / RoHS / SAA / UL / ETL / LM79 / LM80

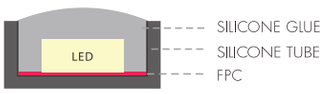
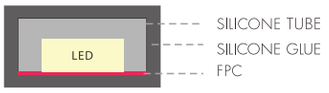
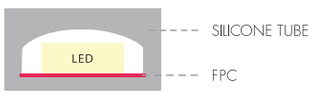
LED strips made to suit your needs

Let your LED strips adjust to your requirements, not the other way around.

We have just what you need, regardless of the weather.

Our helpful team is on standby at 1300 236 467 or sales@admtech.com.au

IP67 Plus | IP68 | IP67 Plus | IP67 Plus | IP67 | IP65 | IP54 Plus | IP54 Plus | IP54 | IP54 Thin

CODE	IP RATING	SKETCH MAP	FEATURE
N	IP20 DC L.V . Series Dry Location		Non-Waterproof
L	IP54 Thin DC L.V . Series Damp Location		Silicone/PU Spraying Anti Splash Water Small Size Change Semi-Seal
C	IP54 DC L.V . Series Damp Location		Silicone/PU Dripping Process Anti Splash Water Small Size Change Semi-Seal
A	IP65 DC L.V . Series Wet Location		Silicone Tube Process Anti Spray Water Tiny Color Shift Full-Seal
B	IP67 DC L.V . Series Wet Location		Silicone Pouring Process Immerse In Water For Short Time (depth≤1 meter & less than 30 minutes) Full-Seal
E	IP68 DC L.V . Series Wet Location		Silicone Injection Process Immerse In Water For Long Time (depth≤1 meter & within the warranty period) Full-Seal
K	IP54 Plus DC L.V . Series Damp Location		Silicone Extrusion Process Anti Splash Water Small Size Change Tiny Color Shift Semi-Seal
H	IP67 Plus Thin DC L.V . Series Wet Location		Silicone Extrusion Process Immerse In Water For Short Time (depth≤1 meter & less than 30 minutes) Small Size Change, Tiny Color Shift Full-Seal
H	IP67 Plus DC L.V . Series Wet Location		Silicone Extrusion Process Immerse In Water For Short Time (depth≤1 meter & less than 30 minutes) Tiny Color Shift Full-Seal

LED Strips

COB Series

- Thick copper wiring for consistent power and brightness
- Thin and narrow
- Flexible with excellent bending resistance

Free-cut Series

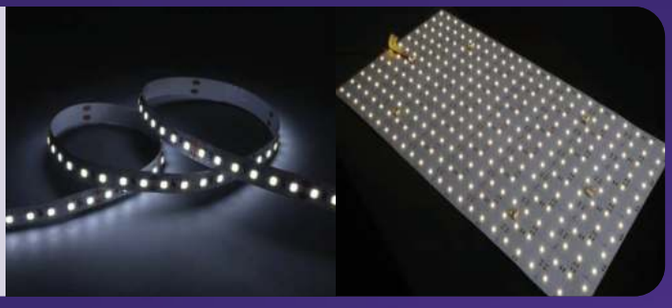
- Cut per one LED
- Dot-free linear lining
- Leaves no dark spots

High Luminance Series

- High lumen output up to 180lm/W
- 4 LEDs or 8 LEDs in series per circuit section

Full Spectrum Series

- High colour rendering and fidelity indexes (95~97)
- Suitable for displays, photography, TV, and film lighting



RGB Mix Series

- Multiple colour options available
  RGB/RGB+W/RGBW/RGB+CCT
- Suitable for creating customised light settings in retail, hospitality and residential settings

Pixel Series

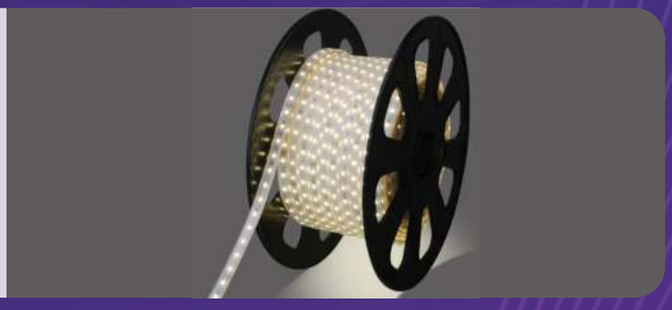
- DMX compatible and programmable with suitable controllers

Ultra-slim High-density Series

- Uses 2216 LED
- Suitable for narrow installations requiring high-density lighting

Ultra-long Series

- Offers uniform and even brightness for the entire length of the strip
- Saves time from connecting multiple LED strips for long installations



Short-cut Series

- Cut in short units
- Perfect for edge-of-furniture lighting

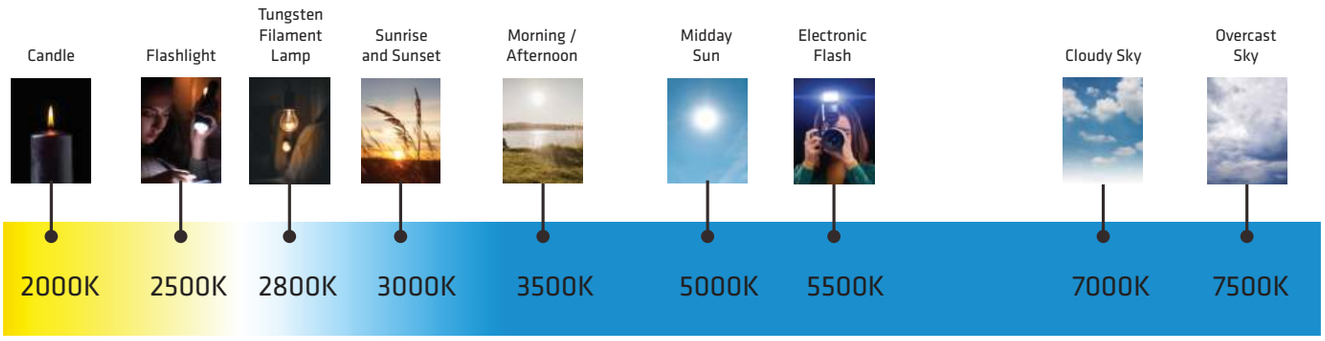
High-protection Series

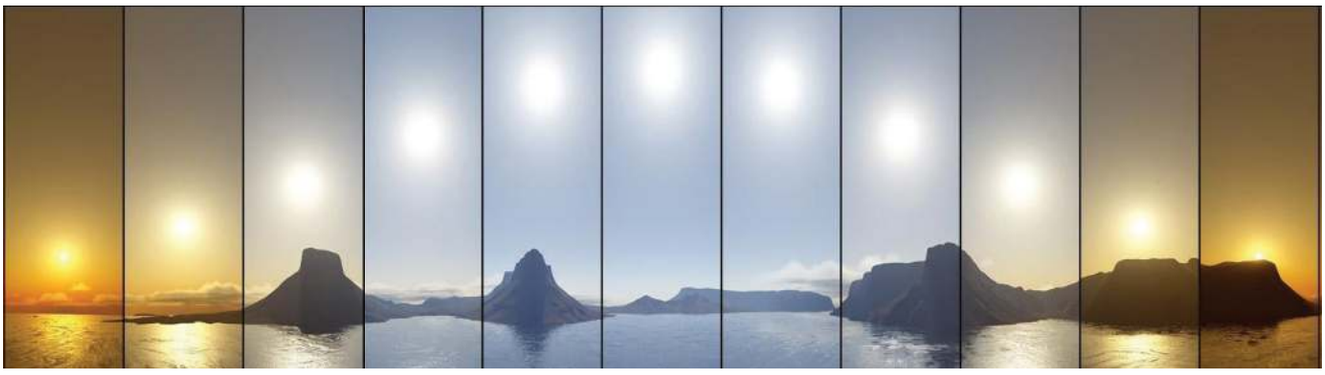
- Premium look with silky texture and dust-free crystal-clear appearance
- Weatherproof – suitable for outdoor installations
- Flame-retardant

Sauna-Snow Room Series

- Weatherproof and fully sealed with IP67 ingress protection rating
- Wide working temperature range between -25°C to 100°C
- Safe to touch
- Suitable for spa and wellness installations

Correlated Colour Temperature (CCT) Light Range Comparison Chart





What is CCT in LED Lights?

If you are scouting for LED lights, or have been working on a LED lighting project, you may have stumbled upon some terms and abbreviations that may not make sense to you. Take CCT for example, what is it?

CCT stands for Colour Correlated Temperature, which is a standard term used for lighting temperature. This is sometimes shortened to colour temperature or colour temp, which means the same thing.

ADM has available LBY LED modules, LED strips and LED neon flex that come with a range of categories that describe the corresponding CCTs, to simplify selection of your lighting options.

- 2700K to 3000K CCT – Warm White
- 4000K CCT – Natural White
- 6500K CCT – Pure White
- 2700K to 6500K CCT – CCT Tunable (Tunable LED light)

What is CCT used for?

CCT indicates the hue or tone of your LED light, and is useful for when you are choosing a LED light that is suitable for your application.

CCT is typically followed by four-digit numbers and the unit "K," which denotes the range of temperature. The most common LED lights in the market ranges from 2700K to 6500K.

K is shortcut for Kelvins, or the unit of measurement used to gauge light temperature. Lower Kelvins – such as 2700K to 3000K – are warmer lights commonly used for bedrooms, displays, shelf lighting, ceiling lighting, dining rooms and lounges.

LED lights that typically fall within the middle range of 3500K to 4500K are more neutral lighting best used for kitchens, bathrooms, channel letters, light boxes, and task areas.

And finally, those with higher Ks – 5000K to 6500K – are the cool/vibrant lights popular for outdoor use, such as store signs, signboards, billboards, and lighting for safety and security purposes.

If you are unsure of the CCT or K units of an existing lighting fixture you need to replace, you can assess it by the colour it emits. Lower CCT/K tends to be yellowish, whereas those with higher CCT/K appear bluish.

What is CCT Tunable LED Light?

Some LED lights installed with the right dimming LED driver can be adjusted not only according to colour temperature, but also to various brightness levels. These are what we call the CCT Tunable LED lights.

Do you have any questions? Contact our team at 1800 632 693 or sales@admtech.com.au for assistance.

TM-30 Colour Chart

TM-30, or TM-30-15, is a colour rendering system developed by the Illuminating Engineering Society (IES) to indicate how well the source of light represents the true colour of objects subjected to it, as they would under a natural light source.

TM-30 addresses the limitations of the colour rendering index (CRI) system by providing 99 colour samples, which are guided by the following metrics: fidelity index (Rf), colour gamut (Rg) and colour vector graphics.

The CRI system, in comparison, only uses eight main colour samples, and only measures fidelity (Ra). Below is the representation of the TM-30 colour samples.

CES 1 Type C	CES 2 Type C	CES 3 Type A	CES 4 Type A	CES 5 Type D	CES 6 Type C	CES 7 Type E	CES 8 Type D
CES 9 Type F	CES 10 Type G	CES 11 Type C	CES 12 Type A	CES 13 Type F	CES 14 Type E	CES 15 Type B	CES 16 Type C
CES 17 Type C	CES 18 Type B	CES 19 Type E	CES 20 Type F	CES 21 Type D	CES 22 Type D	CES 23 Type G	CES 24 Type E
CES 25 Type A	CES 26 Type C	CES 27 Type A	CES 28 Type G	CES 29 Type C	CES 30 Type A	CES 31 Type D	CES 32 Type C
CES 33 Type D	CES 34 Type G	CES 35 Type G	CES 36 Type A	CES 37 Type A	CES 38 Type A	CES 39 Type F	CES 40 Type F
CES 41 Type C	CES 42 Type F	CES 43 Type C	CES 44 Type F	CES 45 Type G	CES 46 Type E	CES 47 Type C	CES 48 Type D
CES 49 Type D	CES 50 Type F	CES 51 Type F	CES 52 Type F	CES 53 Type E	CES 54 Type F	CES 55 Type G	CES 56 Type G
CES 57 Type C	CES 58 Type D	CES 59 Type E	CES 60 Type G	CES 61 Type F	CES 62 Type C	CES 63 Type F	CES 64 Type E
CES 65 Type F	CES 66 Type E	CES 67 Type E	CES 68 Type F	CES 69 Type F	CES 70 Type F	CES 71 Type F	CES 72 Type F
CES 73 Type F	CES 74 Type C	CES 75 Type F	CES 76 Type F	CES 77 Type A	CES 78 Type F	CES 79 Type C	CES 80 Type G
CES 81 Type A	CES 82 Type C	CES 83 Type C	CES 84 Type F	CES 85 Type A	CES 86 Type C	CES 87 Type F	CES 88 Type F
CES 89 Type A	CES 90 Type E	CES 91 Type A	CES 92 Type A	CES 93 Type D	CES 94 Type C	CES 95 Type A	CES 96 Type A
CES 97 Type F	CES 98 Type A	CES 99 Type E					

LED Neon Flex

Dome Series

- Smooth, dot-free lighting
- Dimmable
- Available in multiple colours
- Wide beam angle
- Suitable for indoor and outdoor applications

Slight Series

- Flexible and slim
- IP54 protection rating
- Dimmable
- Indoor use only, applicable for furniture lighting

Angled Series

- Flat profile for flexible bending
- Asymmetric light distribution for inward illumination

Lucid Series

- Suitable for recessed mounting
- Compact
- Flexible and dual-bend (top and side) for various styling requirements

Colour-flow Series

- Sleeves come in eight colour options
- Uniform, dot-free and smooth lighting
- IP67 protection rating suitable for both indoor or outdoor use
- Dimmable

Omni Series

- Suitable for surface or flush mounting applications
- 3-sided omni-directional illumination
- Wide beam angle

Flexcite Series

- Flexible and dual-bend (top and side)
- Suitable for creating wave signage patterns
- Uniform, dot-free and smooth lighting

Halo Series

- Circular tube profile supports 360° illumination
- Uniform dot-free linear lighting
- IP67 protection rating for indoor or outdoor use
- Weatherproof, silicone jacket with high bending flexibility

Compact Series

- Compact with high-impact resistance Ik08 rating
- Dual-bend (top and side)
- Premium look with dust-proof matte-finish coating

Jet Black Series

- Comes in black sleeve colour
- Suitable for use with black materials and finishes

Flexible Wall Washer Series

- High light transmittance
- 3030 LEDs in white and RGBW colours

Benefits of LED Retrofitting for Sign Lighting

You may have heard the term "retrofitting" when it comes to illuminated signs, but what does it mean and why is it important?

In simple terms, retrofitting is like giving an old sign a much-needed makeover. Imagine swapping out those outdated incandescent or halogen bulbs for new, energy-efficient ones without changing the sign's exterior. This way, the signage maintains its familiar look but benefits from modern technology that saves both money and energy.

It's important to understand that when switching to LED, it's not just about changing the bulbs; it can involve changing the entire electrical system. While the initial investment may seem substantial, the long-term benefits make it worthwhile. In this article we look at the benefits of LED technology for sign retrofitting.

Why LED Sign Retrofitting is a Bright Idea

When it comes to traditional lighting, like incandescent bulbs, there's a significant downside: they waste a lot of energy. Most of the energy that goes into these bulbs doesn't actually produce light. In fact, only about 10-20% of the energy on average is turned into visible light. The rest is lost as heat to the surrounding environment. LEDs on the other hand, consume approximately 70-80% less energy compared to traditional lighting solutions – that's a huge improvement!

In addition to their energy efficiency, LED lights boast impressive longevity and durability. LEDs can last up to 50,000 hours or more—about 5.5 years of continuous use—while traditional incandescent bulbs last around 1,000 hours and fluorescent lights about 10,000 hours. This extended lifespan means fewer replacements and reduced maintenance costs.

These lights are also safer for the environment. Unlike fluorescent lights, which often contain toxic materials like mercury, LEDs are free from harmful substances. This means that when LED lights reach the end of their lifespan, they pose less of a risk of contaminating the environment in landfills.

To learn more about LED lighting for your signage, call our team for technical advice: 1800 632 693 or sales@admtech.com.au.

LED Modules

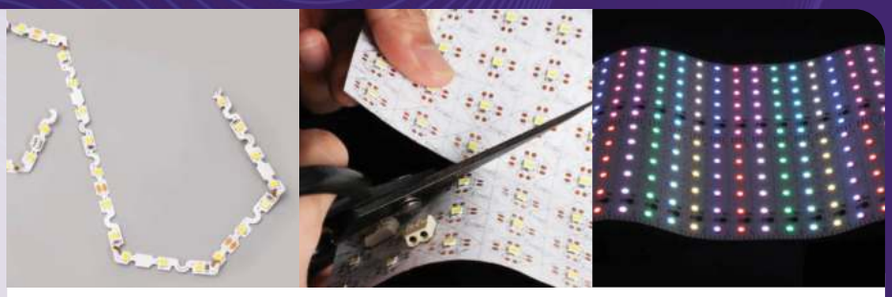
We have LED modules for anything you need lit.

ADM stocks a wide range of LED modules for your signage requirements; suitable for channel letters, light boxes, sign boards, billboards, etc. – you name it, we can get it lit. Our fourth-generation LED modules feature enhanced form factors with better optical, circuit and mechanical components.

Contact ADM to source the right LED module for your requirements: 1300 236 467 or sales@admtech.com.au.

Backlit Series: Signage

- Flexible and bendable
- Highly customisable
- Suitable for space-sensitive installations
- Used for displays, shelves, billboards, small and thin signage



Complex installations with simple and efficient solutions

Backlit Series: Advertisement Boards

- Rigid light bar
- Efficient heat dissipation with aluminium PCB
- Wide beam angle for better and even light distribution

Edgelit Series

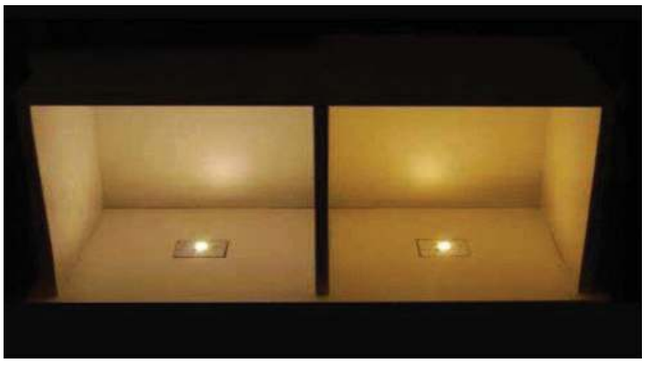
- Rigid light bar
- Made of aluminium PCB for better heat dissipation
- Available in a variety of range and sizes for varying signage requirements

Standard Deviation of Colour Matching (SDCM)

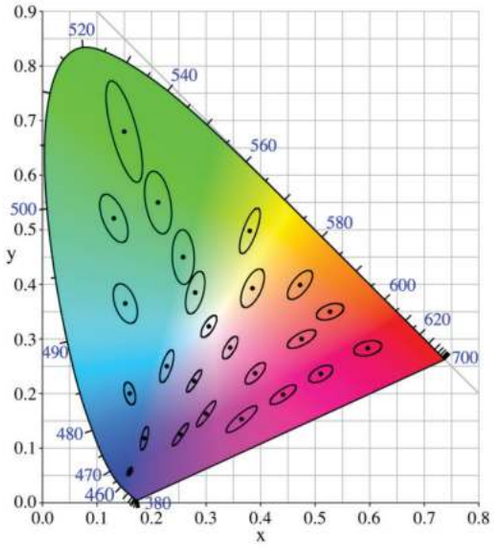
The perfect colour consistency for your lighting projects may be a phone call away. Get in touch with our team today.

Call us at 1300 236 467 or sales@admtech.com.au

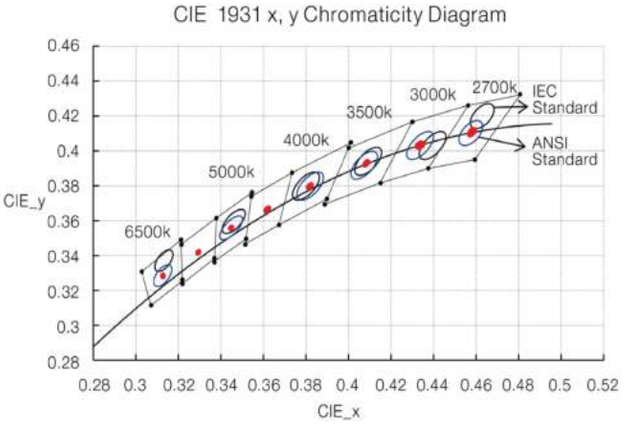
3-Step MacAdam Ellipse



7-Step MacAdam Ellipse



MacAdam's Ellipse Diagram



1-3-5-7 Step SDCM Diagram

How to Use Beam Angle Reference for LED Light Boxes

Building light boxes is not always as straightforward as you would like it to be. Due to the varying dimensions, it could be tricky to determine the proper LED light placement to achieve a consistent and uniform light distribution.

The usual challenges in creating light boxes include uneven light delivery across surfaces, hot spots, and glares.

If you are working on a light box project, you may want to check the beam angle reference to help address this dilemma. You can also contact our team so we can guide you in choosing the right LED lights for your project.

What is a Beam Angle?

Beam angle is the measurement of light distribution from the source to the surface or the area being illuminated. This is often quantified in degrees. The narrower the angle of measurement means a more concentrated light distribution, and the wider the angle of measurement equates to a bigger surface area of coverage. The wider beam angle also tends to provide general soft light compared to the narrow angle, which emits focused lighting.

How to Use Beam Angle Measurement in LED Light Boxes

LED modules are the most popular options for light boxes and illuminated signage due to their flexibility, i.e., they come in a variety of shapes, sizes and colours. LED modules are also durable, bright, energy efficient and require less maintenance.

Do note that for light boxes, the depth or width of the box matters, and is essential to determine even surface lighting. Placing the light source closer to the surface typically achieves even and smooth lighting as well.

- 10° to 50° - commonly used for small light boxes. LED lights with beam angles within this range are also applicable for accent lighting, task lighting, displays, channel letters and some decorative lighting.
- 60° to 170° - applicable for bigger signboards, and light boxes. A wide beam angle, usually between 120° to 160° is advisable to achieve even lighting distribution across the entire surface of the box. LED lights within this range are also applicable for general lighting purposes, both for office and home use.

Edge-lit vs Back-lit Light Boxes

You might have come across these two installation options and thought, "which one is better?"

The answer depends on what type of light box you have, and the range of budget on which you are working.

Edge-lit, also known as side-lit, as the name implies, is when the light source comes from the edges of the panel. This option tends to work best with thin light boxes. Edge-lit panel usually requires less lighting and takes advantage of light guide plates (reflective material) to disperse light across the surface. Since it uses fewer LED lights, it is the more affordable and eco-friendlier option. Side-lit panels also use less energy and emit less heat.

On the other hand, back-lit panels are light boxes that are illuminated by LED lights installed at the back of the sign. Back-lit panels generally use more LED lights, which can be costly depending on the size of your light box. This type of LED light installation provides a more consistent lighting distribution, which results in better signage quality.

Do you need more information? Contact our team at 1800 632 693 or sales@admtech.com.au if you need technical assistance or advice for your light box project.

Fortimo Finger LED Boards and Rigid LED Bar Boards

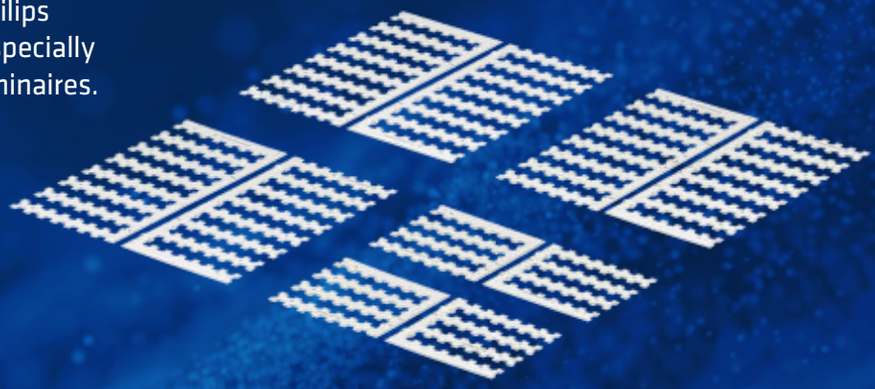
Great variety of high-quality LED modules with outstanding performance, suitable for a wide range of applications.

- Suitable for commercial use - industrial, office and retail
- Compatible with Philips Xitanium FlexTune drivers

Philips Fortimo Finger LED Boards

The unique E-shape design of the Philips Fortimo fingerprint LED module is especially suited for square and rectangular luminaires.

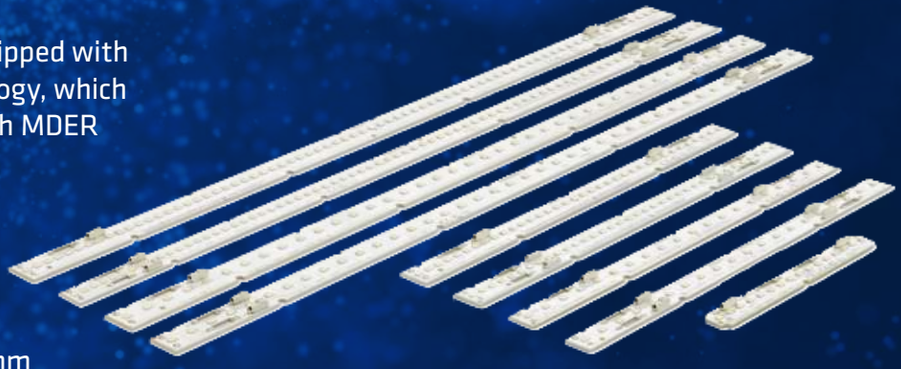
- CCTs available: 3000K, 3500K, 4000K and 6500K
- Colour consistency: 3 SDCM
- CRI >80 and >90
- Perfect for backlit applications



Philips Fortimo Rigid LED Boards

Fortimo Rigid LED Boards is equipped with Signify's BioUp dynamic technology, which provides a dynamic CCT with high MDER functionality.

- CCT tunable from 2700K to 5000K
- Colour consistency: 3 SDCM
- CRI 90
- Slim module width of only 20mm

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Contact our team if you can't find off-the-shelf solutions for what you need:
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