

THEATRES & AUDITORIUMS

Specialist Lighting & Control Solutions

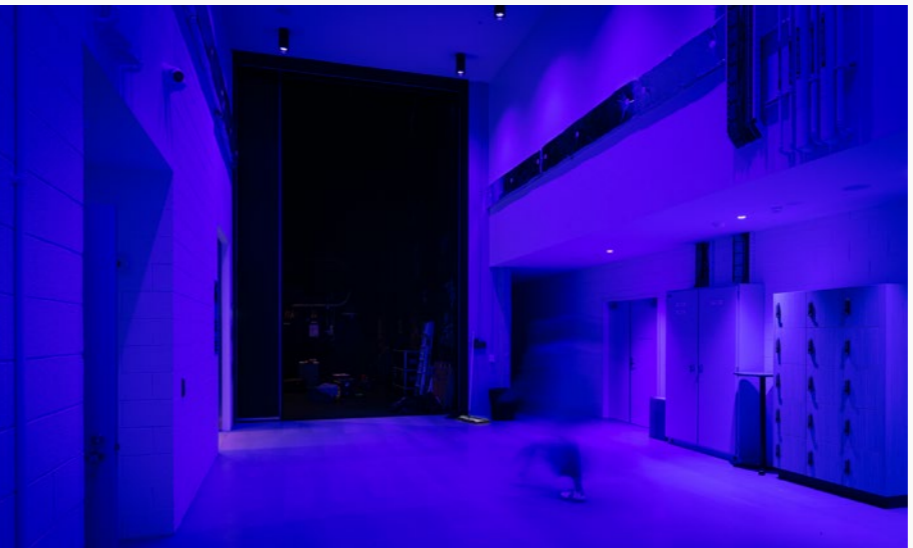
Performing Arts Theatres
Convention Centres
Auditoriums and Halls
Places of Worship
Function Venues
Conference Centres
Ball Rooms
Museums
Art Galleries

Applications

Architectural lighting solutions for cultural spaces

Auditorium Lighting

- Low glare, high-output fixtures combined with in-house manufactured drivers
- We manufacture the most precise DALI dimming solution in the world
- Specialist DMX drivers for recording-grade dimming outcomes

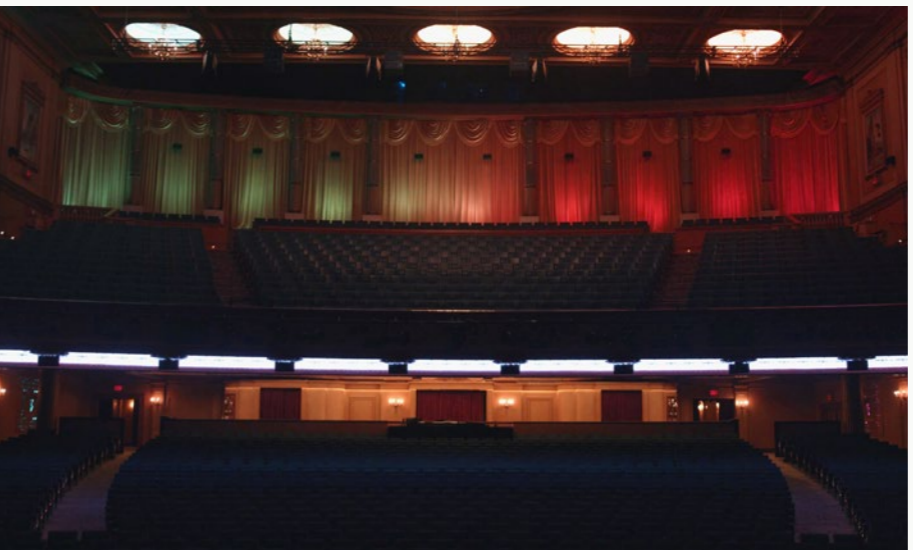


Backstage Lighting

- An innovation in theatre lighting technology, Digilin's Backstage LED arrays enable fixtures to switch between white for general illumination and blue for show mode.
- Available in most interior lighting luminaire families including linear systems

Feature Systems and Custom Solutions

- As passionate problem solvers, custom work is at the core of who we are and what we do
- We bring your concepts to life using in-house design and bespoke manufacturing
- Minor customisations to a complete systems comprised of luminaires, drivers and controllers
- More than 40 years manufacturing fibre optic lighting systems

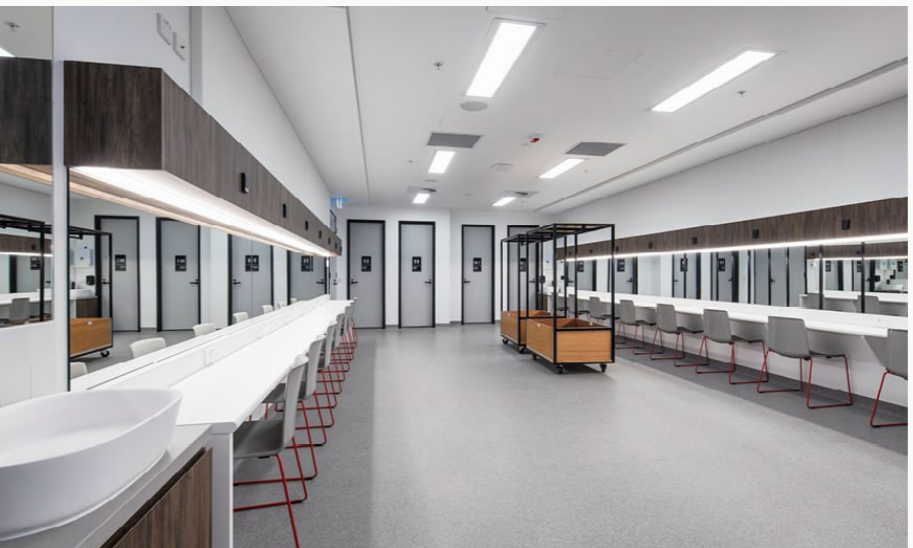


Linear Systems

- High performance systems built to order in project lengths and fully supported with technical drawings
- Range of outputs including RGBW and backstage combined with our own DMX or DALI drivers
- Ideal for highlighting architectural elements, complementing show lighting, and for catwalks and other back-of-house zones

Facades & Exterior Lighting

- Reliable, robust exterior lighting systems bringing attention and personality to venues
- Dynamic colourchange scenes and shows powered by our drivers and controllers



Artist Areas

- RGBW or tuneable white lighting systems with local zone control provided by simple, intuitive wall panels operable by non-technical users
- We can achieve the highest quality tuneable white mix possible in terms of CRI and adherence to the BBL using RGBW systems calibrated to our controllers

Contents

Introduction

About Digilin

Manufactured in Australia

Pioneering LED in Theatres

Solutions

Product Overview

Specialist Drivers

Backstage LED Arrays

Fixtures

Controllers

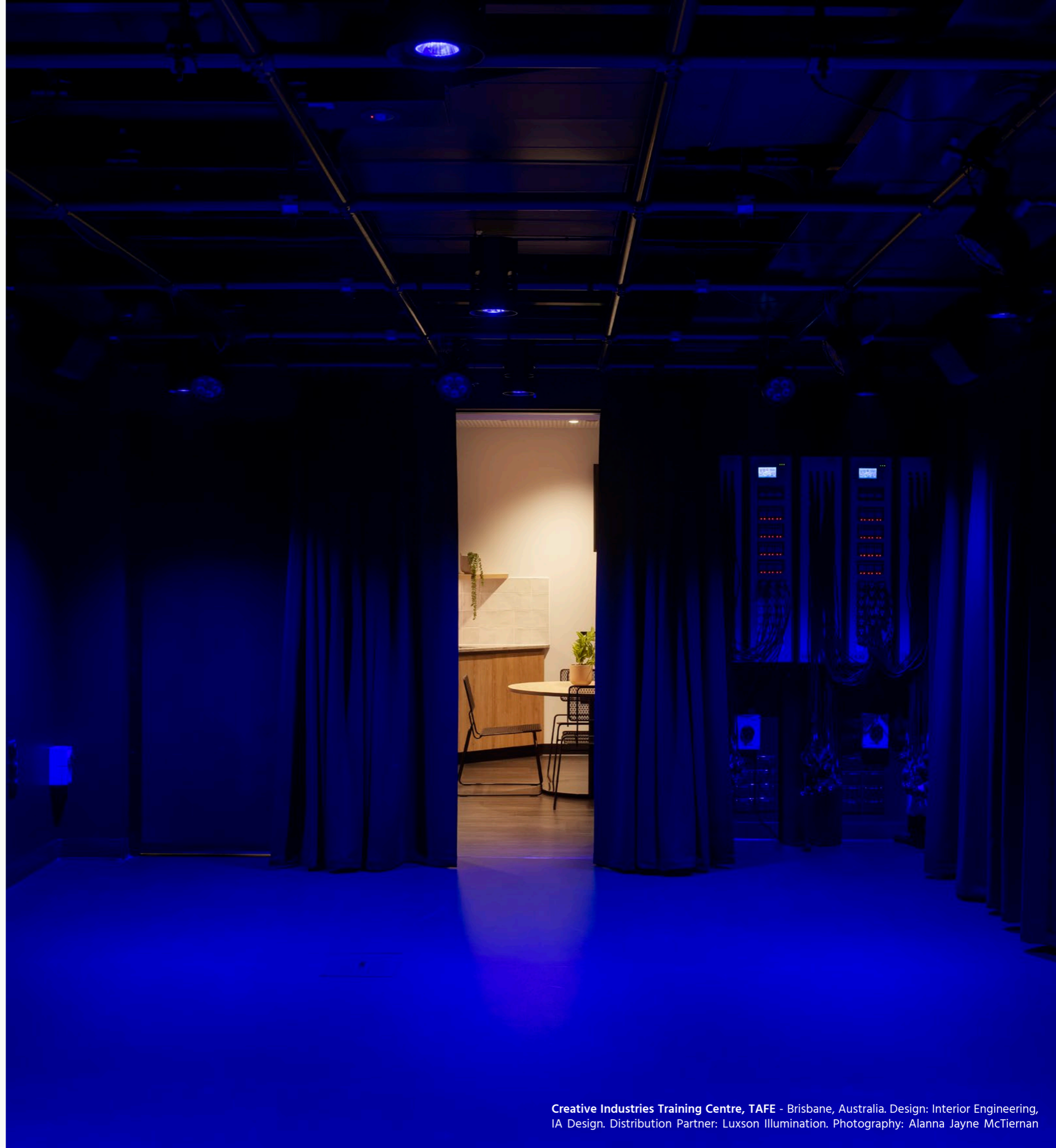
Project Spotlights

Gippsland Performing Arts Centre

Adelaide Convention Centre

Regent Theatre, Melbourne

Her Majesty's Theatre, Adelaide



ABOUT US

Digilin is an Australian manufacturer of high-performance lighting fixtures and specialist control devices used by architects, engineers and lighting designers to bring built environments to life. Our experienced team is extremely passionate about lighting technology and exceptional lighting design and this passion shines through all aspects of our work.

Uniquely, we manufacture both lighting fixtures and electrical control devices such as DALI and DMX drivers and controllers. Aside from our general architectural lighting products, we offer professional solutions for a range of niche applications, such as for theatres and auditoriums, architectural grow-lighting and public art. We also have a dedicated custom development team that focuses on designing bespoke products and systems for unique project challenges.

Proudly based in Australia and supported by an exceptional network of local agents, we manufacture using strict quality control procedures and undertake thorough testing to ensure consistent, reliable performance. Since Digilin was founded in 1980, our products have been used in hundreds of world-class architectural projects in Australia and internationally.



Australian manufacturer of high-performance lighting fixtures and specialist control technologies

DESIGN & MANUFACTURED IN AUSTRALIA

Performance and Reliability Above All

Manufacturing in Australia gives us total control over the design and manufacturing process ensuring consistent high-quality production outcomes. It provides us with access to highly skilled labour and a reliable ecosystem of manufacturing service providers. "Australian made" is more than just a strategy for us, it's who we are and always will be.

We design and manufacture to the highest standards and confidently support all our products and custom solutions with our 5-year Guardian Warranty policy. This industry-leading warranty covers our customers for the cost of replacement or servicing of their products, as well as the cost of labour of removing and reinstalling the replaced or serviced items.



GUARDIAN
On Site Warranty

5 Years
Parts & Labour
Real Support
Real Confidence



PIONEERS OF LED IN PERFORMANCE SPACES

The intersection of architectural and entertainment lighting technology

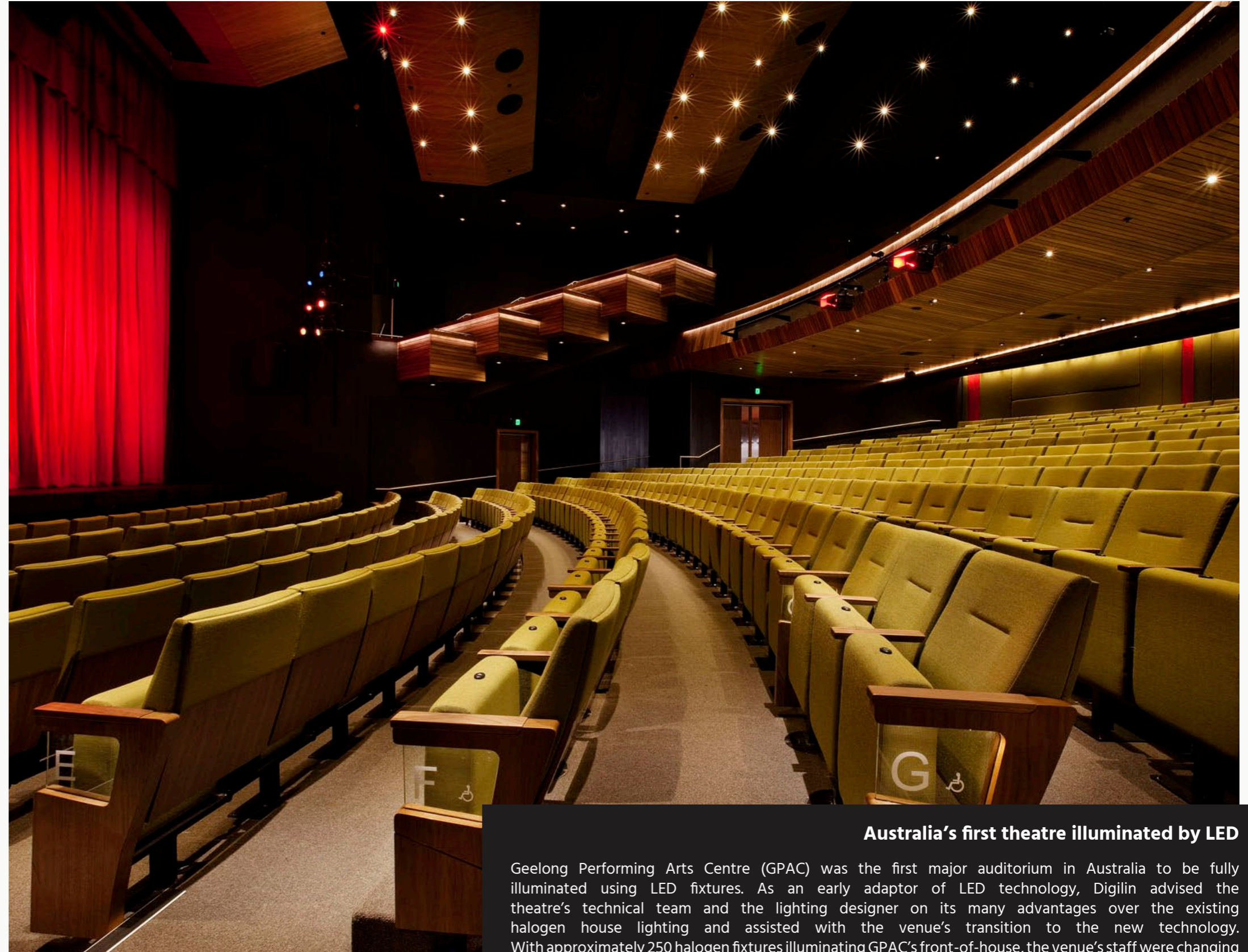
As an architectural lighting and electronic controls manufacturer with extensive experience in performance spaces, Digilin is uniquely placed at the intersection of these two worlds. Our collection of dedicated theatre lighting technologies simultaneously satisfies a performance venue's technical requirements as well as its architectural requirements, empowering venue operators and enhancing the audience experience.

While assisting theatres to make the transition to LED, we've seen the challenges encountered and collaborated with facility managers to develop unique solutions to overcome them, unlocking the technology's many incredible benefits. For example, Our Smooth DALI drivers progress through an incredible 65,500 dimming steps from 100% to off to replicate the atmospheric fade-to-black transitions reminiscent of older lighting technologies. Our blue/white output Backstage fixtures deliver full-power saturated blues and whites from elegant architectural forms and also remove the need for separate lighting systems. No more colour filters required!

We make our own drivers & controllers!

Originally established as an electronics workshop in 1980 before specialising in fibre optic lighting and then LED, Digilin's expertise in electronic controls dates back to its very early days. Digilin has been working with DMX since the 1990s and DALI since the protocol was developed.

Digilin drivers provide specialist capabilities and the highest levels of performance available on the market. Our DALI and DMX drivers provide industry-leading outcomes in terms of dimming resolutions and PWM frequency, managing flicker and reducing stroboscopic effects in film recording. Directly interfacing with our controllers, these devices guarantee optimal compatibility and take the performance of our luminaires to extraordinary levels.



Geelong Performing Arts Centre - Geelong, Australia. Architecture: 101 Architects. Lighting design: Electrolight. Photography: Trevor Mein

Australia's first theatre illuminated by LED

Geelong Performing Arts Centre (GPAC) was the first major auditorium in Australia to be fully illuminated using LED fixtures. As an early adaptor of LED technology, Digilin advised the theatre's technical team and the lighting designer on its many advantages over the existing halogen house lighting and assisted with the venue's transition to the new technology. With approximately 250 halogen fixtures illuminating GPAC's front-of-house, the venue's staff were changing several halogen globes every week. Replacing these with our Icon luminaires improved the uniformity of light levels and significantly reduced ongoing electricity costs and maintenance requirements.

Product Overview

An ecosystem of specialist solutions

LUMINAIRES

Interior Luminaires

These luminaires feature class-leading light output ratios, effective heat dissipation characteristics, incredibly low-glare output and quality mechanical design. Thoughtful combinations of quality components guarantee optimal performance for years to come, thereby delivering exceptional lifetime value.



Linear Systems

Incredibly reliable high-performance systems, manufactured to individual projects lengths for auditorium feature lighting, backstage systems and general illumination applications. Digilin is one of the most experienced companies in the world when it comes to manufacturing specification-grade, truly effective linear lighting systems.



Exterior Luminaires

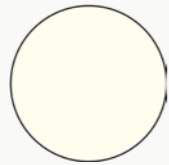
The ultimate test of mechanical design and product longevity, exterior lighting applications have been an area that Digilin has always excelled in. For decades, we've been designing ultra-durable IP rated fixtures that stand the test of time in Australia's harsh environments.



LED OUTPUT

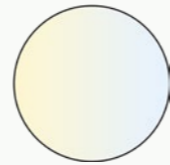
Fixed White

Digilin sources the highest performing LED COBs and CV LED modules available with modern technology, with 90+ CRI (2 SDCM) as standard and outstanding performance life expectations.



Tuneable White

Exceptional tuneable white systems achieving optimal results through precise combinations of premium components driven and controlled by in-house manufactured control solutions.



Backstage

An innovation in theatre lighting technology, Digilin's Backstage LED arrays enable fixtures to switch between white for general illumination and blue for show mode.



RGBW

In-house manufactured arrays using high efficiency colour LEDs, no one does coloured outputs like Digilin. Available in almost all linear systems and interior luminaire families.



CONTROL

Smooth DALI (CC & CV)

Specifically designed for applications where high dimming resolutions and extremely low minimum dim levels are key performance considerations.



DMX FusionDrivers (CC)

Digilin's FusionDrivers guarantee smooth, flicker-free dimming from 100% to off by seamlessly combining CCR and PWM dimming techniques into a single driver.



DMX Drivers (CV)

The ultimate constant voltage DMX driver series, packed with unique technologies, sophisticated features and offering a broad selection of versatile personalities.



Controllers

Exceptionally powerful, intuitive DMX and DALI controllers providing non-technical users with localised control of lighting systems.



Smooth DALI Drivers

The most precise DALI dimming solution in the world enabling atmospheric fade-to-black and exceptionally comfortable “lights on” transitions

Developed specifically for performing arts theatres, convention centres and other auditorium spaces in response to demand from discerning facility managers, Digilin’s Smooth DALI technology allows for ultra-precise dimming control at minute light levels.

With over 65,000 dimming steps from 100% down to an extraordinary minimum of 0.009% (more than 100x lower than most), light-level transitions become almost imperceptible even at extremely low levels. This allows for smooth, atmospheric fade-to-black transitions at the start of performances and exceptionally comfortable “lights on” transitions at the end.

The constant current drivers operate at currents ranging from 350mA to 1400mA and are commonly paired with Digilin’s high-output interior luminaires from downlight families such as the Freedom, Liberty and Envoy. Constant voltage versions are compatible with our linear systems.

The most precise DALI dimming technology in the world, our Smooth DALI Drivers are designed and manufactured by Digilin in Australia and are extremely reliable.



Key Features

- 65,535 dimming steps (16 bit output resolution)
- 0.009% minimum dim level
- Logarithmic dimming curve
- Designed to drive primary auditorium house lighting fixtures
- Constant current and constant voltage versions
- Drives luminaires up to 54W (1400mA) or 10A (24V)
- Frequently paired with the Freedom & Altitude families of luminaires



Altitude

Benefits

- Extremely smooth dimming for fade-to-black transitions reminiscent of older lighting technologies
- Enables theatre grade dimming outcomes from a DALI control system
- Consistent dimming outcomes between constant voltage and constant current luminaires



Freedom



Adelaide Convention Centre - Adelaide, Australia. Architecture: Woods Bagot. Engineering: Aurecon. Distribution Partner: HI Lighting SA. Photography courtesy of the ACC.

CC DMX FusionDrivers

Delivering recording-grade dimming outcomes - CCR and PWM dimming fused for flicker-free, precision dimming - available in RGBW versions

Digilin's constant current DMX FusionDrivers guarantee smooth, flicker-free dimming from 100% to off by seamlessly combining CCR (constant current reduction) and PWM (pulse width modulation) dimming techniques into a single driver.

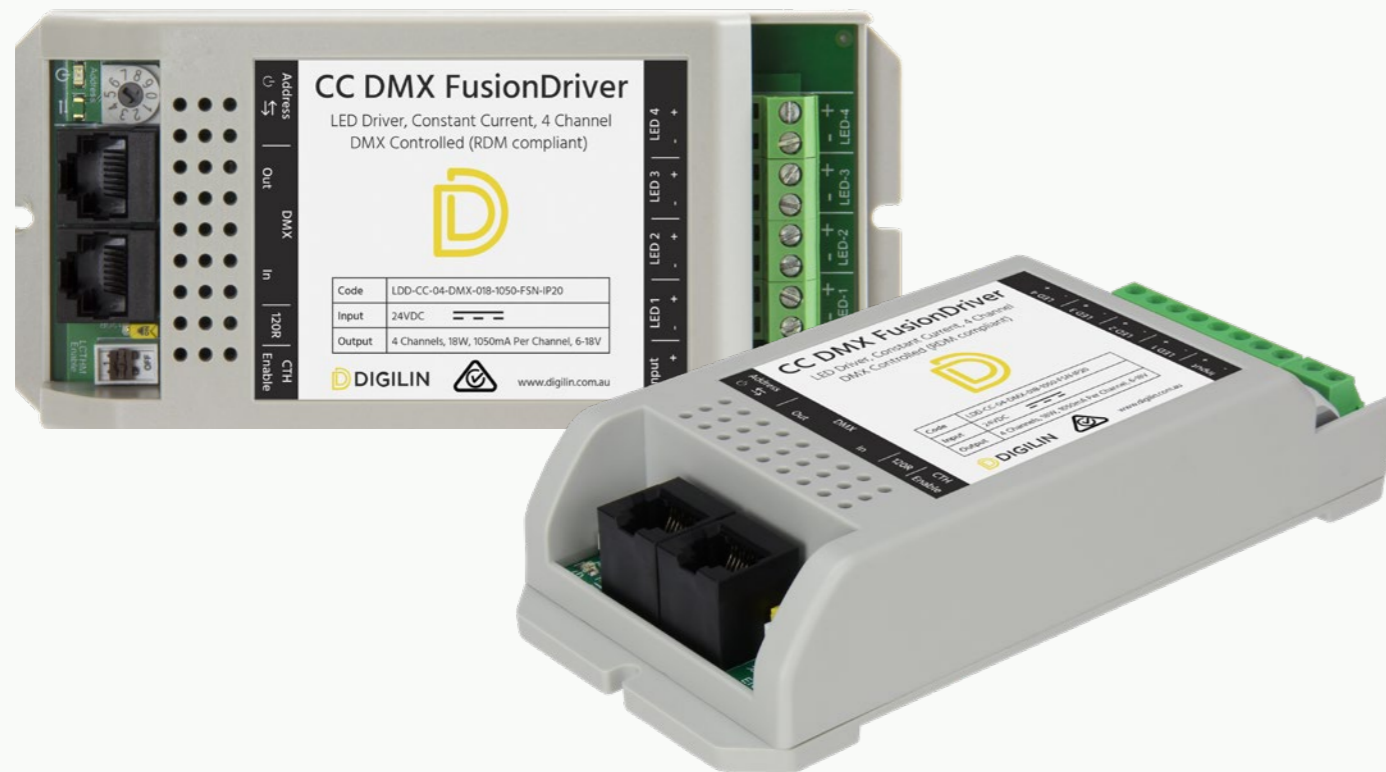
With both individual dimming methods presenting drawbacks, LED dimming has always been defined by unavoidable trade-offs. CCR is a simple technique to smoothly dim LEDs but it can cause their output to become unstable at dimming levels below 10% and can also cause some LEDs to suffer from unsightly colour shifts. PWM on the other hand can more reliably dim LED at lower levels and doesn't cause colour-shifting, but at high levels can result in harmful flicker if its frequency isn't high enough.

The FusionDriver overcomes these drawbacks by using CCR dimming from 100% down to 10%, before seamlessly switching over to high-frequency 1800Hz

PWM dimming from 10% to 0%. With the PWM frequency compressed across that tight 10% range, the minimum dimming step becomes an incredibly minute 0.0075% (logarithmic). This driver series can be switched between DMX personalities offering linear and logarithmic dimming curves using RDM.

Versions are available for single colour, tuneable white, RGB and RGBW fixtures. These constant current drivers operate at currents ranging from 350mA to 1400mA and are commonly paired with Digilin's colour-mixing interior luminaires from downlight families such as the Freedom Colour and Liberty Colour.

Providing such incredible benefits, FusionDriver technology is set to quickly become the new industry standard in best dimming practice. Digilin's CC DMX FusionDrivers are designed and manufactured in Australia and are extremely reliable.

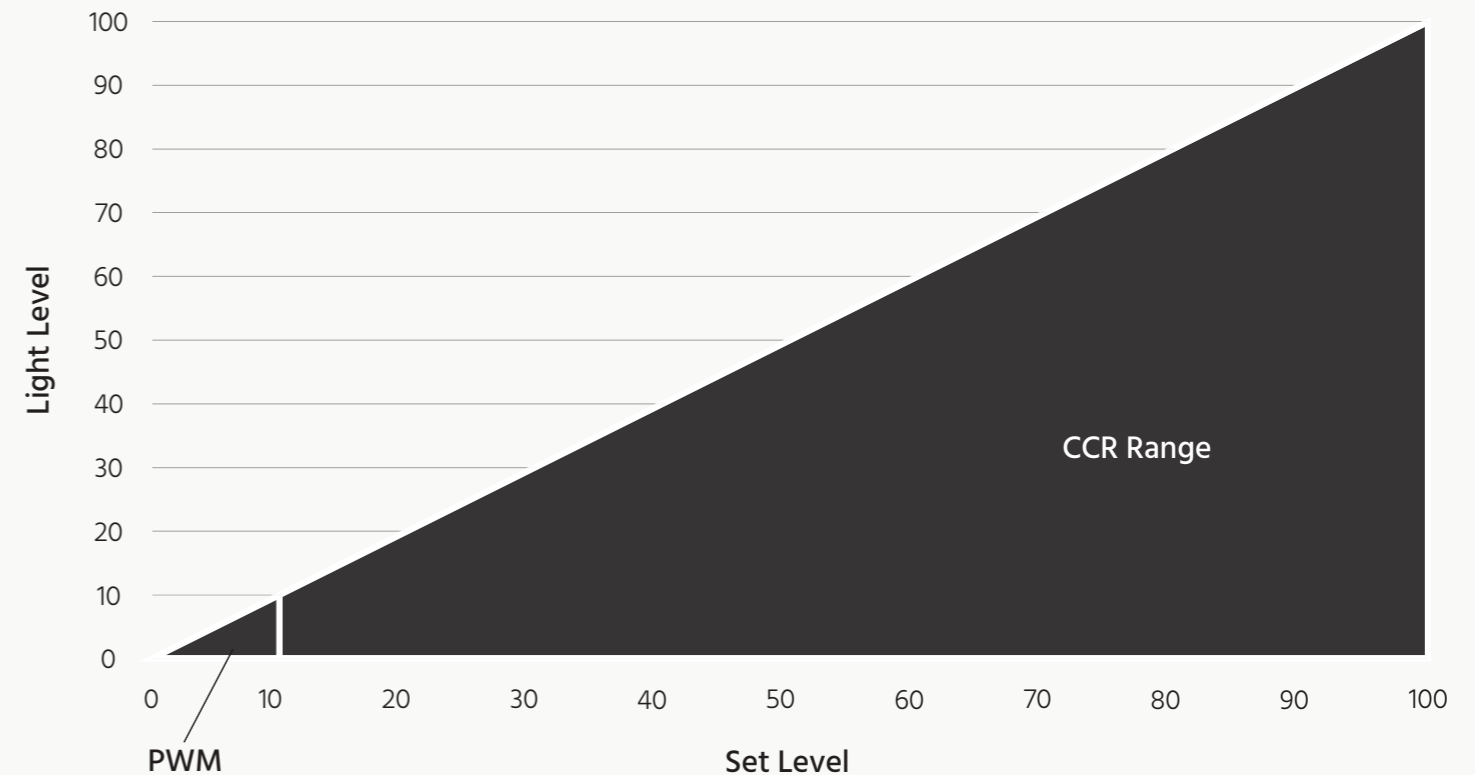


Key Features

- 12 bit output analogue (CCR) dimming resolution from 100-10%
- 11 bit output PWM (1250hz) dimming resolution (1333 steps) from 10-0%
- 2 DMX personalities with linear and logarithmic dimming curves selectable via RDM
- 0.0075% minimum dim level at DMX 1 (logarithmic), 0.4% (linear)
- 23ms dynamic smoothing of transitions
- 1, 2, 3 and 4 channel versions available up to 1400mA (56W max single channel)
- 0.125 standard device DMX load
- Built-in connection for our ColourTouch controller

Benefits

- Smooth, stable dimming along the entire dimming curve with extreme precision at minute light levels
- Flicker free to the maximum extent possible
- No strobing - making it perfect for broadcast quality applications



CV DMX Drivers

The ultimate constant voltage DMX driver series, packed with unique technologies, sophisticated features and offering a broad selection of versatile personalities

Designed for the world's best dimming outcomes, Digilin's constant voltage DMX drivers feature multiple DMX personalities and use top-tier electronic hardware to employ sophisticated dimming techniques.

At its core, this device is a DMX receiver with multiple channels of PWM driven outputs for controlling constant voltage LED systems. In response to the unavoidable trade-offs resulting from the need to balance dimming resolution and PWM frequency, these drivers feature 8 DMX personalities, each with a different combination of PWM frequency, dimming resolution and smoothing technique. A high resolution is important as it creates the smoothness of the dimming, whereas a higher frequency PWM is desirable to minimise flicker and stroboscopic effects that can appear in video recordings.

The personalities range from discrete 16-bit resolution/366Hz to 8-bit resolution/1800Hz. Facility operators can swap between the 8 DMX personalities using RDM, allowing them to select the personality best suited to their immediate requirements.

Many of the DMX personalities employ Digilin's Dynamic Fade technology. Dynamic Fade uses the

input DMX signal to determine the amount of fade to apply. Small changes in the DMX signal will apply longer fades, whereas larger changes will apply a faster fade, ensuring silky smooth dimming transitions. In addition to DMX input, the CV DMX driver series also has a connector for direct interfacing to Digilin's ColourTouch DMX controllers, making a complete system simple to install and control.

These drivers are also the first to be enabled with our Adaptive Power Regulation (APR) technology. Used for multi-channel outputs, APR actively calculates and drives each channel or combination of channels at a determined maximum in any given moment unless dimmed. This allows, for example, a fixture with a maximum heatsinking ability of 20W to drive each individual RGBW channel at 20W, instead of that 20W being split across the various colours, resulting in up to 4 x higher output.

Putting sophisticated dimming capability in the hands of venue operators, our CV DMX Driver series has been deployed as the critical driveline in many iconic projects and is extremely reliable.



Key Features

- 8 DMX personalities selectable via RDM
- Up to 65,536 dimming steps and 1800Hz PWM frequency
- 0.0015% minimum dim level
- Employs Dynamic Fade technology to achieve ultra-smooth transitions regardless of the intensity of the change
- Enabled with Digilin's Adaptive Power Regulation (APR) technology
- 4 channel versions available up to 5A/120W per channel
- 0.125 standard device DMX load
- Built-in connection for our ColourTouch controller



ColourTouch

Benefits

- Versatile DMX personalities allow users to select the configuration that is best suited to their immediate requirements resulting in zero-compromise outcomes
- Smooth, stable dimming along the entire dimming curve with extreme precision at minute light levels
- Broadcast quality dimming outcomes

DMX Personalities

#	Input Resolution	Output PWM Frequency	Output Resolution	Fading	Dim Curve	DMX 1 Output %
1	8 Bit 255 steps selectable	1254Hz	19,125 steps	Dynamic Fade	Linear	0.39%
2	8 Bit 255 steps selectable	752Hz	31,875 steps	Dynamic Fade	Linear	0.39%
3	8 Bit 255 steps selectable	244 Hz	65,535 steps	Dynamic Fade	Linear	0.39%
4	8 Bit 255 steps selectable	1250Hz	255 steps	Direct Control	Linear	0.39%
5	8 Bit 255 steps selectable	1800Hz	255 steps	Direct Control	Linear	0.39%
6	16 Bit 65,535 steps selectable	366Hz	65,535 steps	Direct Control	Linear	0.0015%
7	16 Bit 65,535 steps selectable	366Hz	65,535 steps	Extra DMX Channel	Linear	0.0015%
8	8 Bit 255 steps selectable	366Hz	65,535 steps	Fixed Fade (0.13s)	Non-Linear	0.39%

Backstage LED Outputs

An innovation in theatre lighting, our blue/white switchable Backstage fixtures deliver extremely efficient, saturated blue outputs and remove the need for separate work light systems

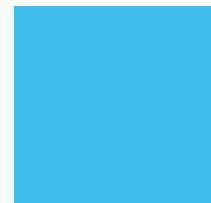
Dedicated architectural work lights for backstage spaces? Say goodbye to inefficient colour filters!

Our Backstage luminaires feature two channels that allow venue operators to switch between high output white for general illumination and saturated blue output for show mode. Usually controlled by DMX or DALI DT8, these fixtures are dimmable and can have their output preset to a defined maximum to ensure that no spill light ever reaches the stage and interferes with the audience experience.

Backstage blue/white outputs are available in a variety of fixtures and linear systems, providing designers immense versatility in designing an effective lighting scheme for all their unique back-of-house zones, irrespective of how cramped or spacious they are. Most of Digilin's fixtures are also available in fixed blue output, ideal for replacing existing working lights.

The heart of our Backstage downlights are in-house manufactured LED arrays commonly powered using our tuneable white CC DMX FusionDriver or DALI DT8 driver. This enables full power delivery to each channel at the maximum heatsinking capacity of the fixture, instead of it being split between the two channels, while ensuring that they aren't be driven at the same time to prevent the luminaires from overheating. This reduces the overall number of luminaires required and the number of addresses used on the control network, also thereby reducing cost.

Our Backstage linear systems are comprised of combinations of constant voltage white LED modules and blue LED modules. The variety of combinations possible provides incredible versatility. The most common configuration is 1500lm/m white (10.6W/m) with 400lm blue (16W/m), although we've manufactured systems with up to triple this output.



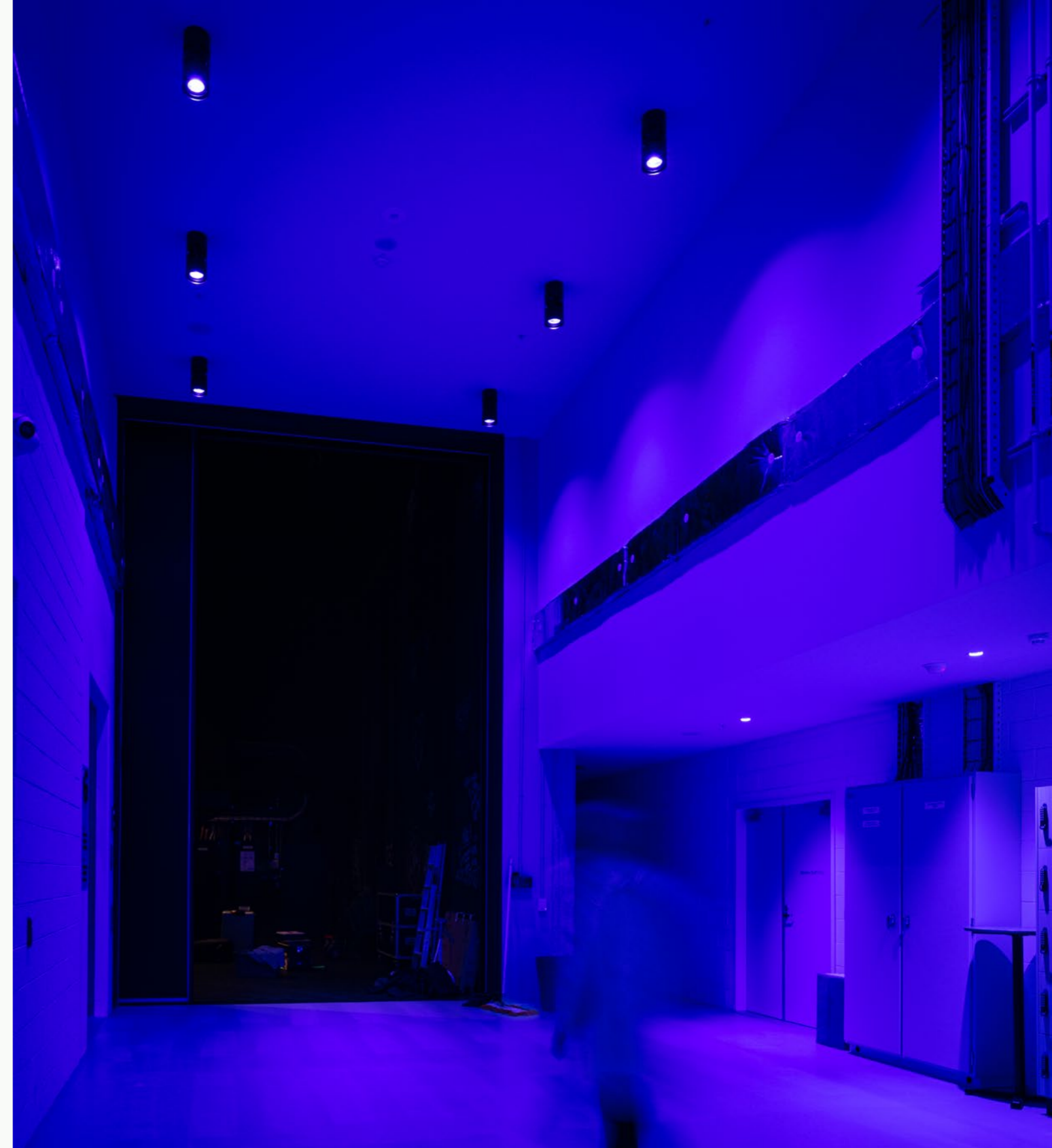
Standard Blue
(465-485nm)



Royal Blue
(440-460nm)



Space linear systems with backstage LED output, Her Majesty's Theatre (SA)



Available in Backstage Outputs (examples)



Liberty



Freedom



Altitude



Space Linear Systems

Gippsland Performing Arts Centre
- Traralgon, Australia. Theatre
Consulting: ARUP. Architecture:
Jackson Architecture/Katsieris
Origami. Distribution Partner:
Buckford Illumination Group.
Photography: ALM Visuals



Liberty

An extremely reliable low-glare fixture available with a variety of outputs, suited a broad range of lighting applications

An outstanding example of electronic lighting engineering, Liberty is a versatile reflector-based downlight designed for applications where performance and reliability are essential. Using a high-quality metallic reflector with its LED COB/array set back about 50mm from the fascia trim, Liberty has extremely good glare control and creates a uniform colour mix and smooth light effect. The fixture is very efficient, delivering 800-2800lm at 110lm per watt (90 CRI), effectively managing thermals while running at over 30W.

Ideal for projects where facility performance is particularly important and factors contributing to maintenance workloads are reduced as much as

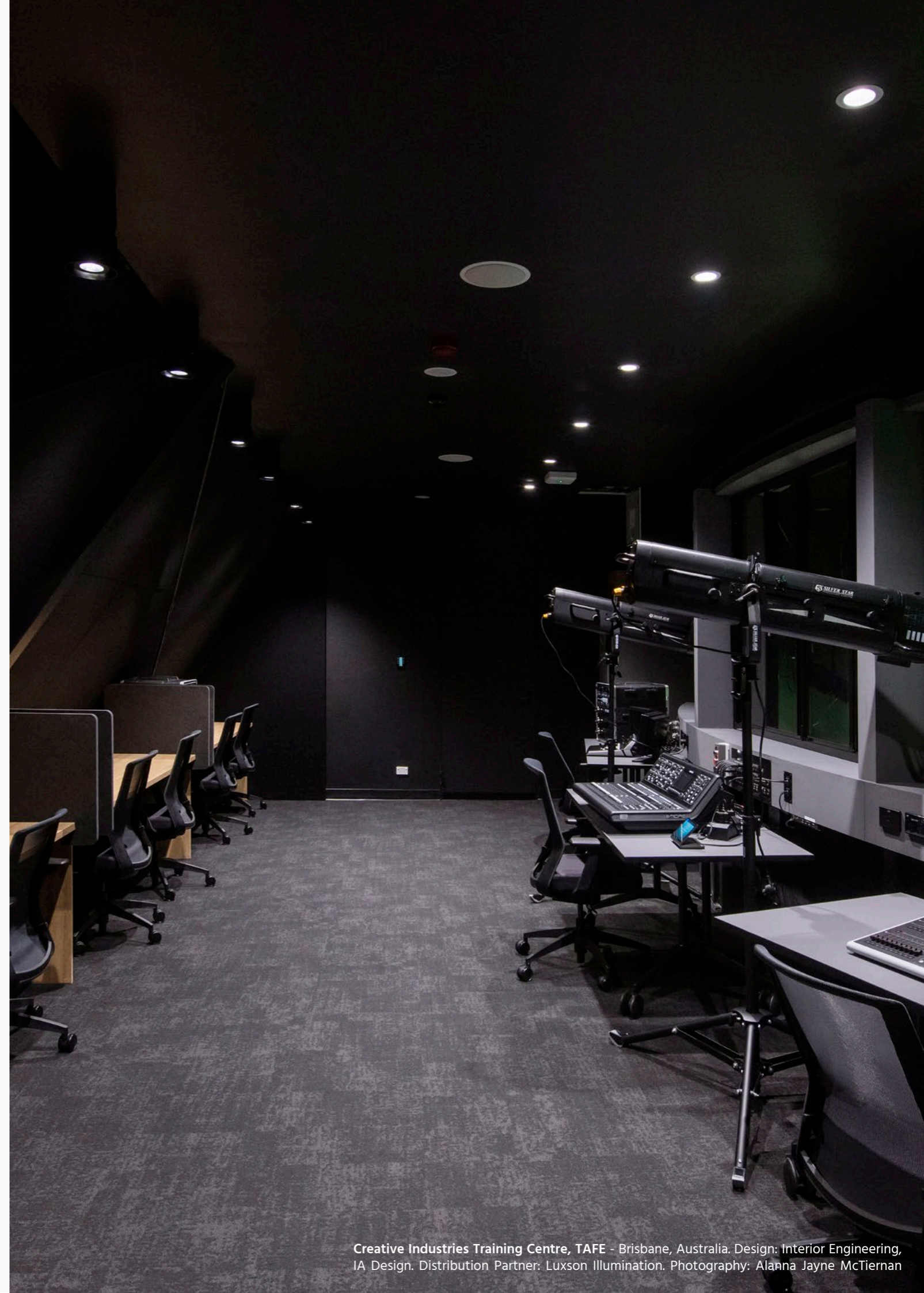
possible, this fixture sees widespread application in theatres, hospitals, airports, universities and government institutions.

Liberty is often employed in combination with its higher powered cousin, Freedom, which is generally installed in locations where the ceiling height and lumen delivery requirements are higher.

Available in recessed, surface mount or suspended formats with multiple LED outputs such as tuneable white, RGBW and Backstage, Liberty is highly configurable, enabling it to be adapted for a broad range of lighting applications.

Configurations

Mounting	Recessed, Surface Mount, Suspended
LED Colours	Fixed White, Tuneable, Backstage, RGBW, Blue
Max. Output	30W with remote or integral drivers
Beam Angles	Narrow (24°), Medium (36°), Wide (58°)
Control	Mains, DALI, Smooth DALI, DMX or Casambi Bluetooth
Finish Colour	White, Black or Custom Finishes



Freedom

Designed for low-glare, high lumen delivery into spaces with high ceilings, such as theatres, convention centres and other commercial applications

Delivering up to 6000 lumens at 100-115lm per watt, Freedom is an extremely efficient high-output downlight. Designed for spaces with high ceilings, Freedom uses premium COB LEDs and quality metallic reflectors and is a reliable solution for projects requiring high light levels and low glare, such as performing arts theatres, convention centres, commercial lobbies, casinos and places of worship.

This versatile downlight series is available in fixed white, tuneable white, backstage and RGBW LED outputs, in recessed, surface mounted and suspended versions.

Performers and stage operators will enjoy the luminaire's high-powered, vibrant colour mixes; while venue owners and facility managers will appreciate its energy efficiency, low maintenance requirements and long performance life.

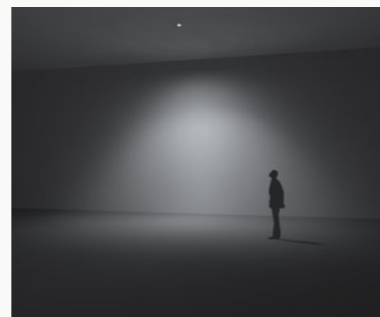
Freedom can also be employed as an efficient architectural growlight using Sunlike 4000K LEDs, delivering up to 5000lm (88PPF) at >95CRI. Combined with its wall wash reflector, this configuration is ideal for green walls.

Frequently paired with our CC DMX FusionDriver or Smooth DALI driver series, this luminaire family is relied upon by performing arts and convention centres throughout Australia and internationally.

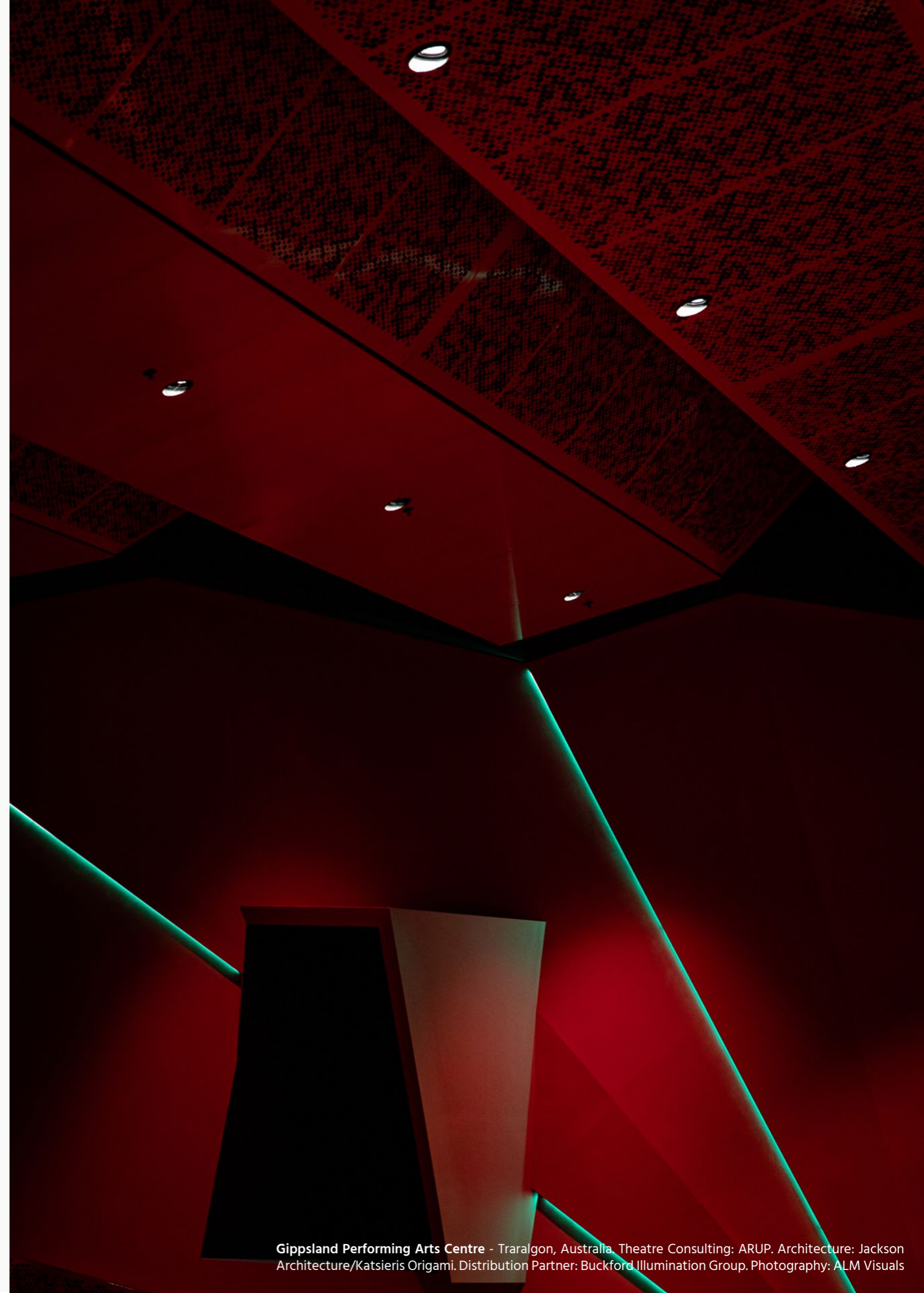


Configurations

Mounting	Recessed, Surface Mount, Suspended
LED Colours	Fixed White, Tuneable, Backstage, RGBW, Blue
Max. Output	55W with remote or integral drivers
Beam Angles	Narrow (20°), Medium (27°), Wide (50°), Wall Wash
Control	Mains, DALI, Smooth DALI, DMX or Casambi Bluetooth
Finish Colour	White, Black or Custom Finishes



Wall Wash Reflector



Altitude

Sleek high output, low glare downlight with integral drivers for surface mounted or suspended applications, also available in short version with remote drivers for tight spaces

Altitude is an efficient, high output downlight for surface mounted and suspended applications. Combining the latest generation LED COB technology from Citizen with high quality, low-glare reflectors into a neat physical package, Altitude is very well suited to cultural and commercial projects.

Combined with Digilin's Smooth DALI or DMX FusionDriver technology, Altitude is also an ideal lighting solution for performing arts theatres and convention centres. This versatile fixture is available in fixed white, tuneable white or with Sunlike 4000K growlight LEDs. RGBW and backstage versions are also available in Altitude Colour. The fixture's exceptional mechanical

design allows it to effectively dissipate heat without the requirement for large air vents, even with its internal drivers running at over 40W. Altitude also features a high transparency cover to prevent dust ingress, further improving its reliability and longevity.

Ideal for spaces with low-hanging ceilings and limited cavity space, the Low Altitude fixture version is available as just the lower body with a total height including canopy of only 120mm. Despite its short height, the fixture maintains its exceptionally low glare output. Note that this version requires the drivers to be placed outside of the fixture.

Features

- Exceptional mechanical design enables high capacity heat dissipation from within a contained sleek form
- Low glare reflectors with deep-set LED modules
- Fixed white, tuneable white, fixed colour, backstage and RGBW versions
- Integral drivers allow the fixture to operate as a single neat package
- High transparency cover prevents dust ingress
- Backstage and RGBW versions have a colour-mixing sub-lens for optimal mixing results

Configurations

Mounting	Surface Mount, Suspended
LED Colours	Fixed White, Tuneable, Backstage, RGBW, Blue
Max. Output	40W (integral drivers) or 55W (remote drivers)
Beam Angles	Narrow (20°), Medium (43°), Wide (62°)
Control	Mains, DALI, Smooth DALI, DMX or Casambi Bluetooth
Finish Colour	White, Black or Custom Finishes



Low Altitude



Linear Lighting Systems

Incredibly reliable high-performance systems, manufactured to individual project lengths for auditorium feature lighting, backstage systems and general illumination applications

Highly versatile, efficient, a massive variety of optics and lenses, unique light effects, and the ability to integrate seamlessly into architectural elements – the advantages of linear lighting systems are diverse and wide-ranging. Digilin is one of the most experienced companies in the world when it comes to manufacturing specification-grade, truly effective linear lighting systems.

We first discovered the potential of this lighting medium in 2001, manufacturing linear LED systems for the Sheik Hazza Palace in Dubai. Since then we've manufactured systems for an incredible variety of performance-critical applications, ranging from universities to hospitals, workplaces, performing arts theatres and public art.

All Digilin linear systems are manufactured in Australia to custom project lengths and supplied with factory-fitted connectors using Digilin's chemical anchoring process for super durability and ease of installation

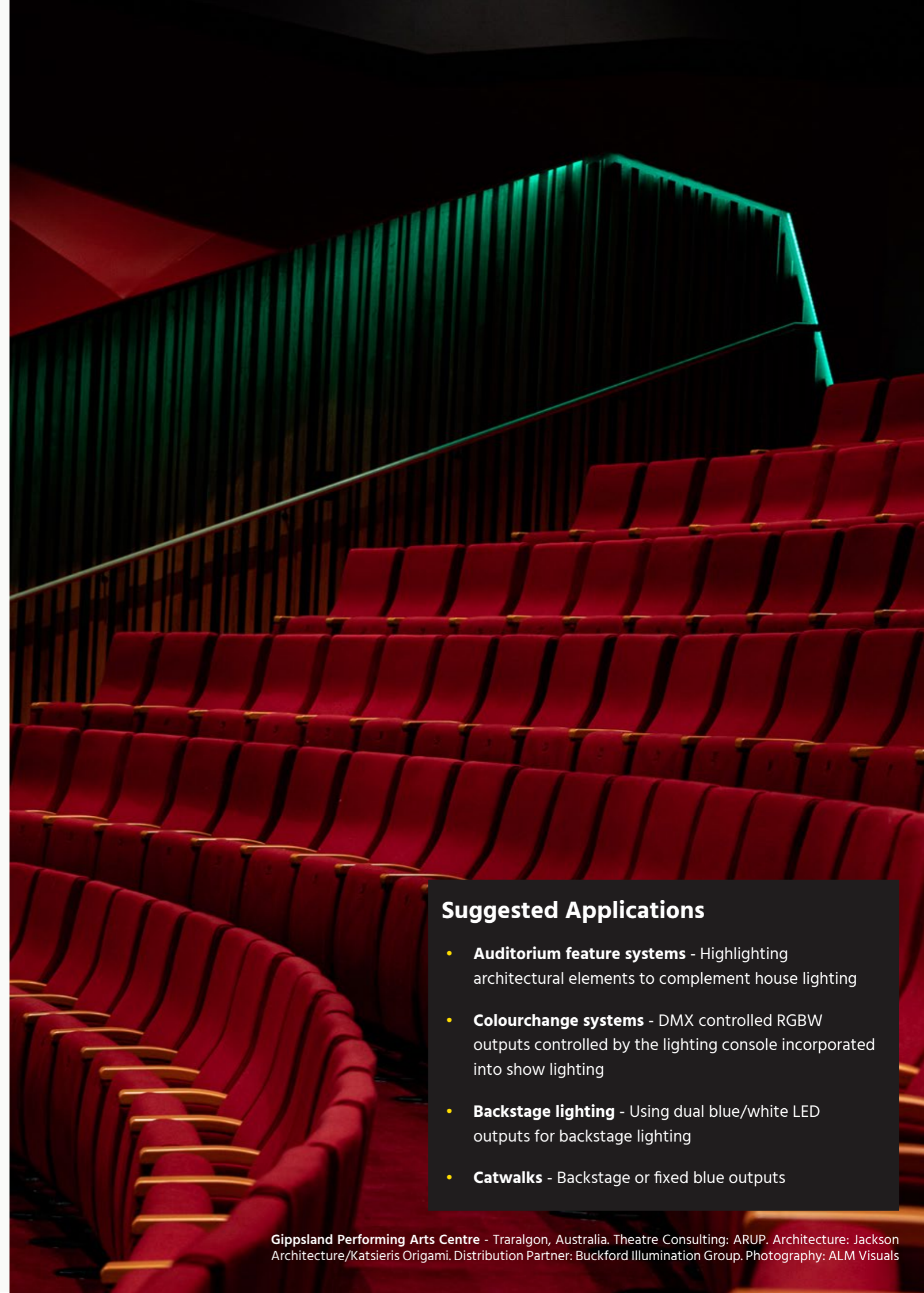
(generally plug and play). Most systems can undergo Digilin's shield exterior coating service to upgrade their protection to an IP65 rating for outdoor applications, along with a range of other services such as hard-anodising, custom colour finishes and mitre cutting. Digilin guarantees effective outcomes by supporting designers and specifiers with technical advice and detailed shop drawings.

We take pride in our incredible range of LED module options which include, fixed white, tuneable white, RGB, RGBW, fixed colour as well as specialist Backstage and Sunlike Growlights. Developing tuneable white and colour-change systems are an area that we truly excel in, achieving optimal results through precise combinations of premium components powered and controlled by in-house manufactured DALI and DMX drivers and controllers.



Suggested Applications

- **Auditorium feature systems** - Highlighting architectural elements to complement house lighting
- **Colourchange systems** - DMX controlled RGBW outputs controlled by the lighting console incorporated into show lighting
- **Backstage lighting** - Using dual blue/white LED outputs for backstage lighting
- **Catwalks** - Backstage or fixed blue outputs



Arbiter

Sophisticated, versatile Ethernet-based DMX controller with web interfaces, designed to run shows created with Studio 512, Digilin's show creation and configuration software

Combining unparalleled performance, sophistication and versatility into an intuitive, easy-to-use platform, Arbiter represents the pinnacle of DMX control technology for small to medium size installations.

Arbiter features two DMX universe outputs and stores approximately 255 shows created with Studio 512, Digilin's show creation and device configuration software. Commands to play these shows are delivered by the manual interface, closed contact triggers, time scheduling and primary BMS systems outputs.

The device is configured via the administration interface, in which users can group fixtures, schedule shows, program closed contact trigger commands, change device settings and monitor statuses, amongst other functions. The user interface provides in-the-moment manual control, enabling users to play pre-programmed shows, turn fixture groups on/off or dim and set colour outputs. Each interface is independently password protected.

Arbiter features eight closed contact triggers,

empowering users to synchronize lighting effects with external events effortlessly; for example, by employing PIR sensors to trigger dynamic colour-change fades.

Arbiter operates on Power over Ethernet (PoE) technology, streamlining setup and reducing clutter in your installation.

The device's intuitive display screen provides at-a-glance monitoring of device status and settings, even in low-light environments.

Whether you're designing dynamic colour-change shows for your building facade, managing public art installations, a community and events centre, or an interactive museum exhibit, Arbiter and Studio 512 offer unparalleled flexibility and accommodate even the most complex lighting configurations with ease.

Elevate your lighting experience to new heights with Arbiter & Studio 512 - where performance, sophistication and versatility are combined to make managing your DMX lighting installation simple and easy.

System Overview

- Arbiter - control device
- Web interfaces - separate user & administration pages
- Studio 512 - Digilin's DMX show creation and device configuration software

Capacity

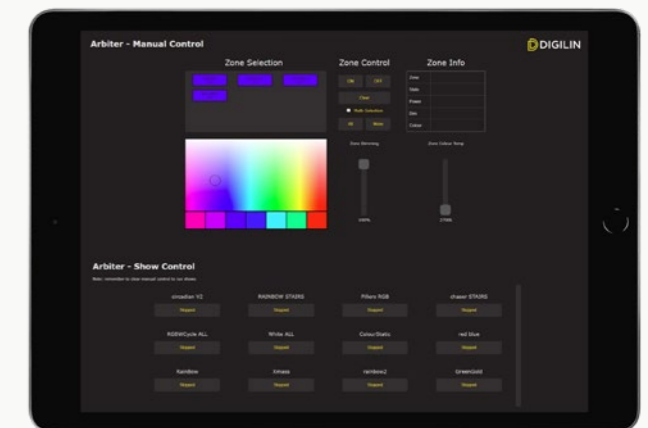
- Controls up to 2 DMX universes - 1024 channels
- 255 shows stored on uSD card
- Simultaneously runs shows up to 20 x 256 channels, or 5 x 1024 channels
- Controls up to 40 fixture groups

Show Triggering

- User interface - manual control or commands to start pre-programmed shows
- Isolated closed contact triggers
- Time scheduling
- Commands from primary BMS

Features

- 3 show types - Static, Dynamic and Transparent
- 8 isolated closed contact triggers for connection to PIR sensors, bell-switches etc.
- Display screen for status and error messaging
- Ethernet portal with POE or 24V DC input
- 8Gb SD onboard storage with configurations transferable by switching out cards
- Manual reset button
- Din mount
- Time scheduling and tracking through SNTP (capable of second to yearly control)
- Automatically determines sunrise and sunset by longitude and latitude coordinates



User Interface



Studio 512 - DMX show creator

Arbiter - dual universe DMX controller

ColourTouch

Pre-programmed DMX controller with an intuitive interface for controlling single zones with simple commands

The ColourTouch is a sophisticated, pre-programmed multi-channel DMX controller. Featuring a display screen and five touch-sensitive buttons, ColourTouch's user interface is extremely intuitive and simple to use, enabling users to take full advantage of DMX control capability over an entire universe with zero technical skills.

The left and right buttons cycle between functions - colour temperature, dimming and show selection, while the top and bottom buttons alter each particular function's values, allowing users to set colour temperature in 100K intervals, dim from 0.4-100% and select from hundreds of preset colours and show sequences. The centre button turns the control panel on and off. It really could not be more straightforward.

Customised sequences can also be uploaded to the ColourTouch's onboard memory chip, adding to the hundreds of others that come preprogrammed with the device, allowing it to be adapted to any installation and design requirement.



Features

- Left/right cycles functions – CCT, dimming, show selection
- Top/bottom changes values – CCT 100K intervals, dimming 0.4%-100. shows #1-300
- Custom scenes and shows can be uploaded
- Custom plate colours and engraving options
- Screen to be set to remain on for navigation in low-light settings such as backstages
- Ideal for DMX backstage blue/white lighting systems, RGBW dressing rooms, greenrooms and other front-of-house applications

PosiTouch

Full DALI control features from a simple wall panel providing non-technical operators localised control of lighting systems

The PosiTouch is a lighting control system that provides users with full DALI control of multiple lighting fixtures through a stylish wall-mounted panel. A single device is capable of issuing electronic commands to lighting fixtures individually or in groups, allowing them to be set to certain scenes, turned on/off and dimmed up/down. Designed under the premise that advanced functionality is only as useful as it is usable, Digilin developed the touch controller to be as intuitive and user-friendly as possible.

While most other controllers require a third-party programmer or specialty programming knowledge, the PosiTouch can be pre-programmed by Digilin before being sent to site for plug-and-play installation, or user-configured via USB connection and simple software. The PosiTouch configuration tool can be downloaded from our website.

Although the controller is easy to use, it is fully featured and extremely versatile. Each of the 6 buttons is capable of initiating DALI commands through long-press, short press and tap-and-release inputs. The device also supports DT8 commands.



Features

- Long press, short press and tap-release inputs
- Pre-programmed and/or user programmed via USB using software from our website
- Dimming, scene setting and on/off control to individual or grouped light fixtures
- Custom plate colours and engraving options
- Screen to be set to remain on for navigation in low-light settings such as backstages
- Ideal for backstage blue/white lighting systems, single colour or tuneable white dressing rooms and other front-of-house applications

Adelaide Convention Centre

The Adelaide Convention Centre (ACC) is one of the world's most modern, flexible and technologically advanced venues. Comprising three distinct yet seamlessly integrated buildings, the centre spans 20,000sqm of multi-purpose space. Digilin were extremely honoured to be chosen to design and manufacture a significant amount of lighting and controls for this iconic Australian venue, which involved some very ambitious design elements, sophisticated lighting technology and unique custom solutions.

Digilin's products and expertise was deployed into many critical zones of the building. In combination with our Freedom and Liberty luminaires, high bay fixtures were installed in one of the main convention halls to provide the general house lighting. Not only were our fixtures driven by Smooth DALI Drivers, we also developed custom versions of the drivers for the highbays to ensure outstanding fade-to-black transitions.

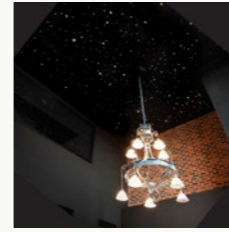
A feature that has received much attention is the Starry Night system in the Plenary hall. This is the largest fibre optic starfield in the world with over 42,000 light points. Each light point is carefully located within panels underneath seating banks, which are raised when the venue is in function mode. The system uses various sized fibre optic cables illuminated by the Titan series lightsource and scintillation wheel for a realistic night sky effect. This impressive lighting feature provides the perfect ambience for functions and fast became recognised as the preferred backdrop for premier events in the region.

Architecture: Woods Bagot
Engineering: Aurecon
Distribution Partner: HI Lighting SA
Photography: Courtesy of the ACC





'Starry Night' - Fibre Optic Star Ceiling



End-Lit Fibre Optics



Titan Lightsource



Auditorium



Liberty



Freedom



Smooth DALI Drivers



Other Areas



Compact



Corner



Liberty



Freedom



CV Smooth DALI Drivers



CV Repeaters



Project Spotlight

Gippsland Performing Arts Centre

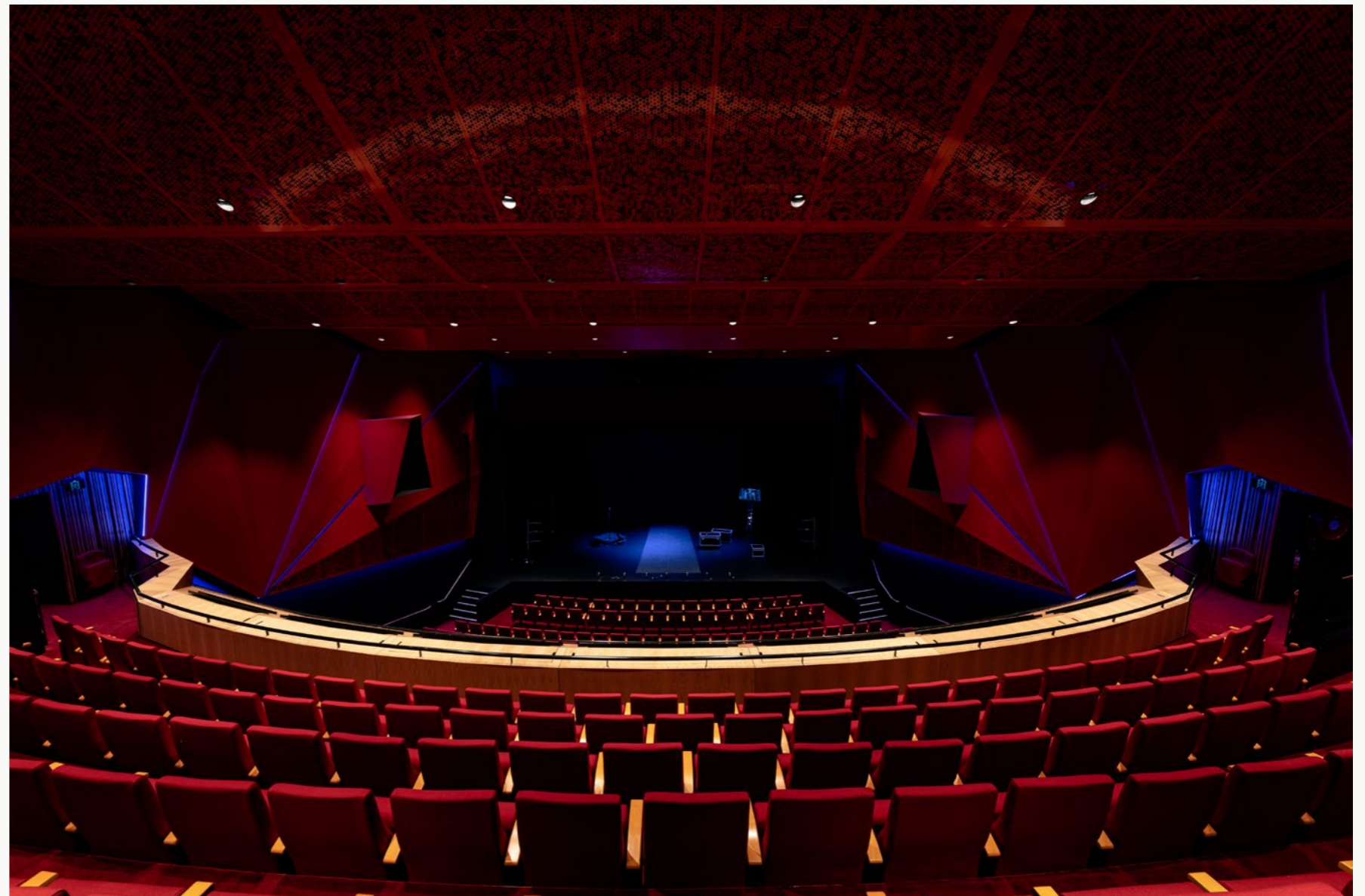
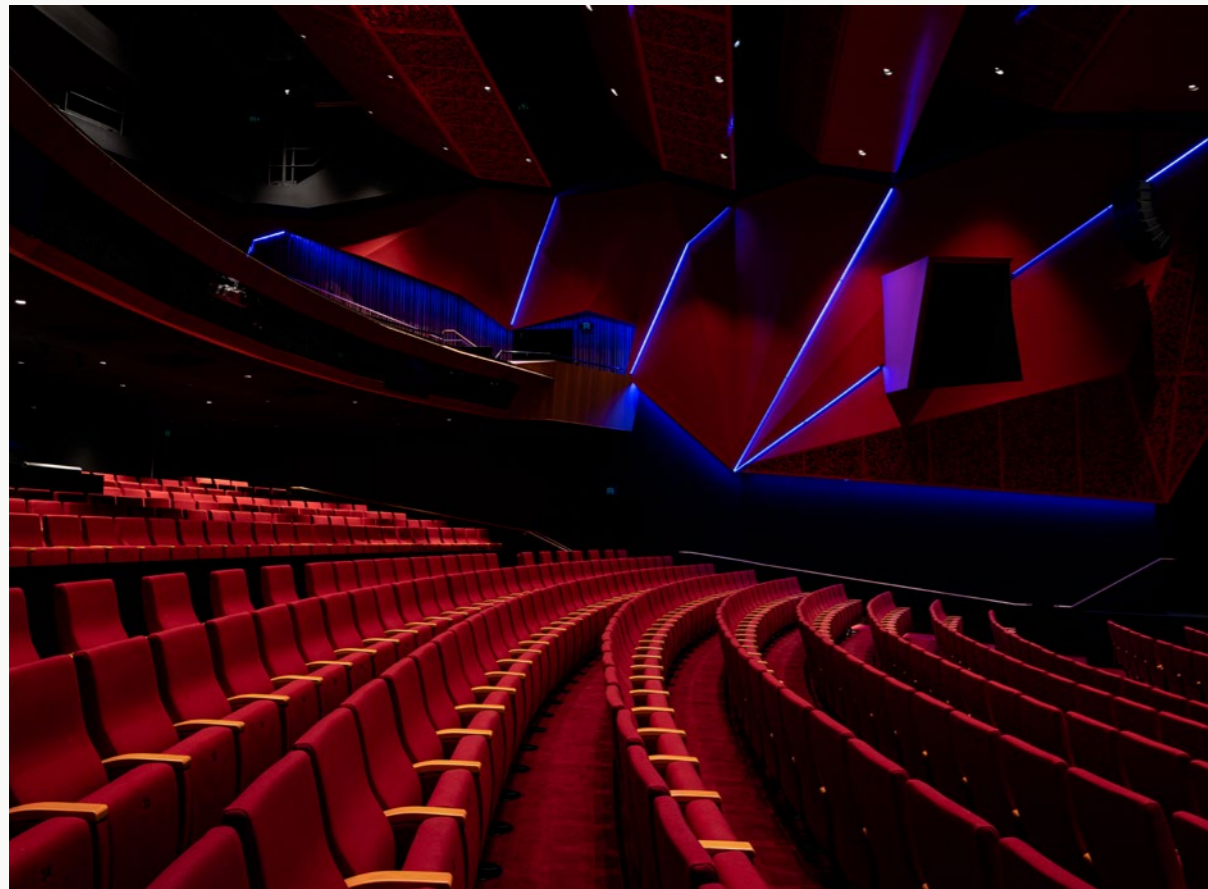
- Primarily front-of-house lighting delivered by Freedom (6000lm) powered by our Smooth DALI drivers with custom snoots enabling the fixtures to be seamlessly integrated into the ceiling rakes
- Javelin linear systems with high output RGBW, powered by our CV DMX drivers are the key decorative feature elements in the front-of-house
- Our DMX drivers enable the linear systems to be controlled by the show controller and integrated into live performances
- All backstage areas are illuminated by our backstage Liberty Colour fixtures, in recessed and surface mount versions. These fixtures switch between high output white and blue for when shows are underway.
- Manufactured dozens of other product types for the remainder of the theatre, including meeting rooms and exterior areas

Theatre Consulting: ARUP

Architecture: Jackson Architecture/Katsieris Origami

Distribution Partner: Buckford Illumination Group

Photography: ALM Visuals





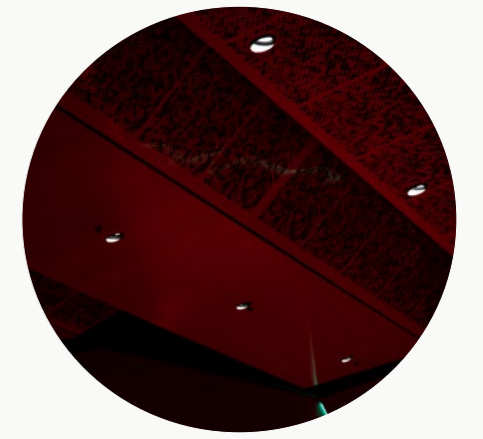
Auditorium



Freedom



Smooth DALI



Feature Systems



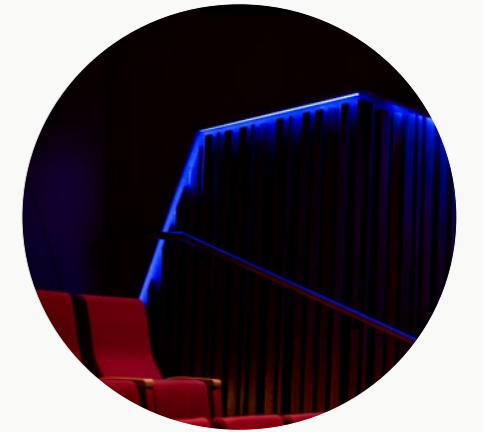
Javelin



CV DMX Drivers



CV Repeaters



Backstage



Liberty



DALI DT8 Drivers



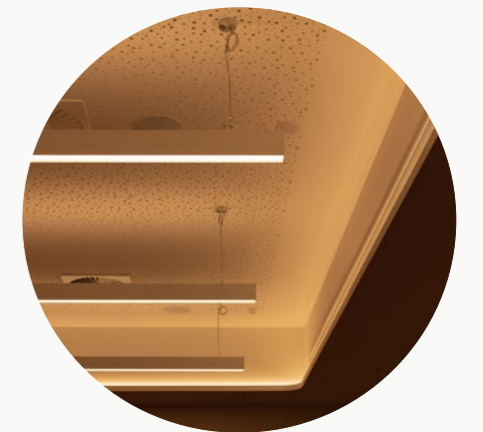
Conference Rooms



UpDown



CV DALI Drivers

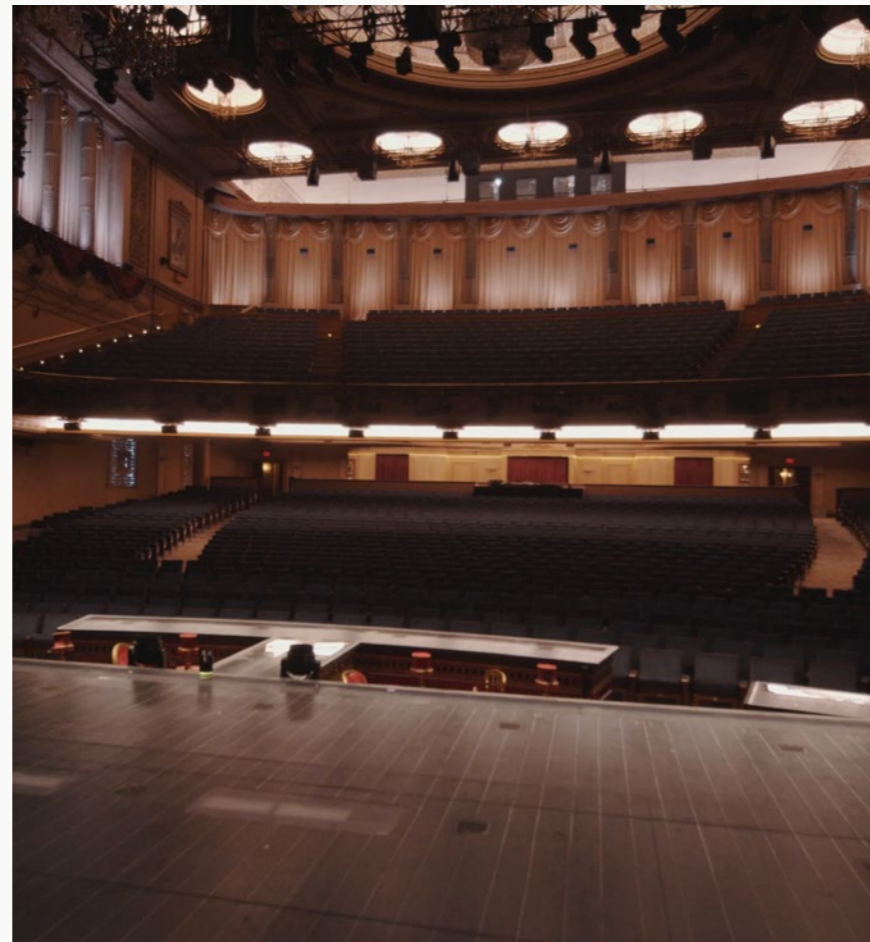
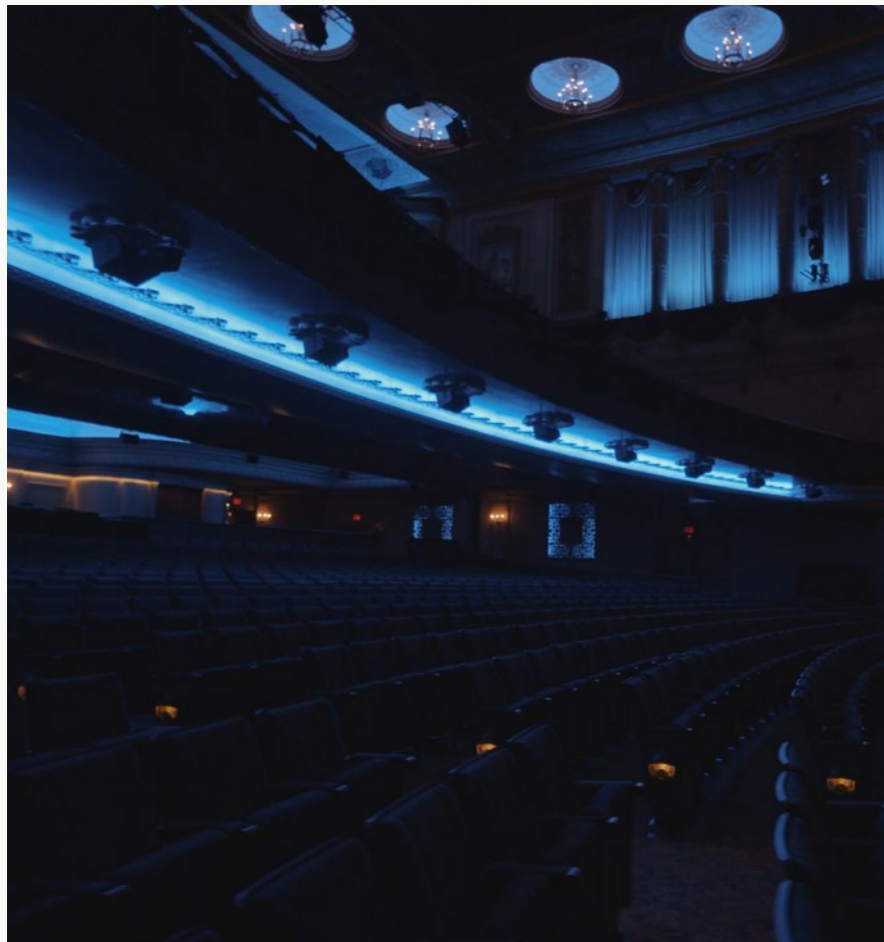
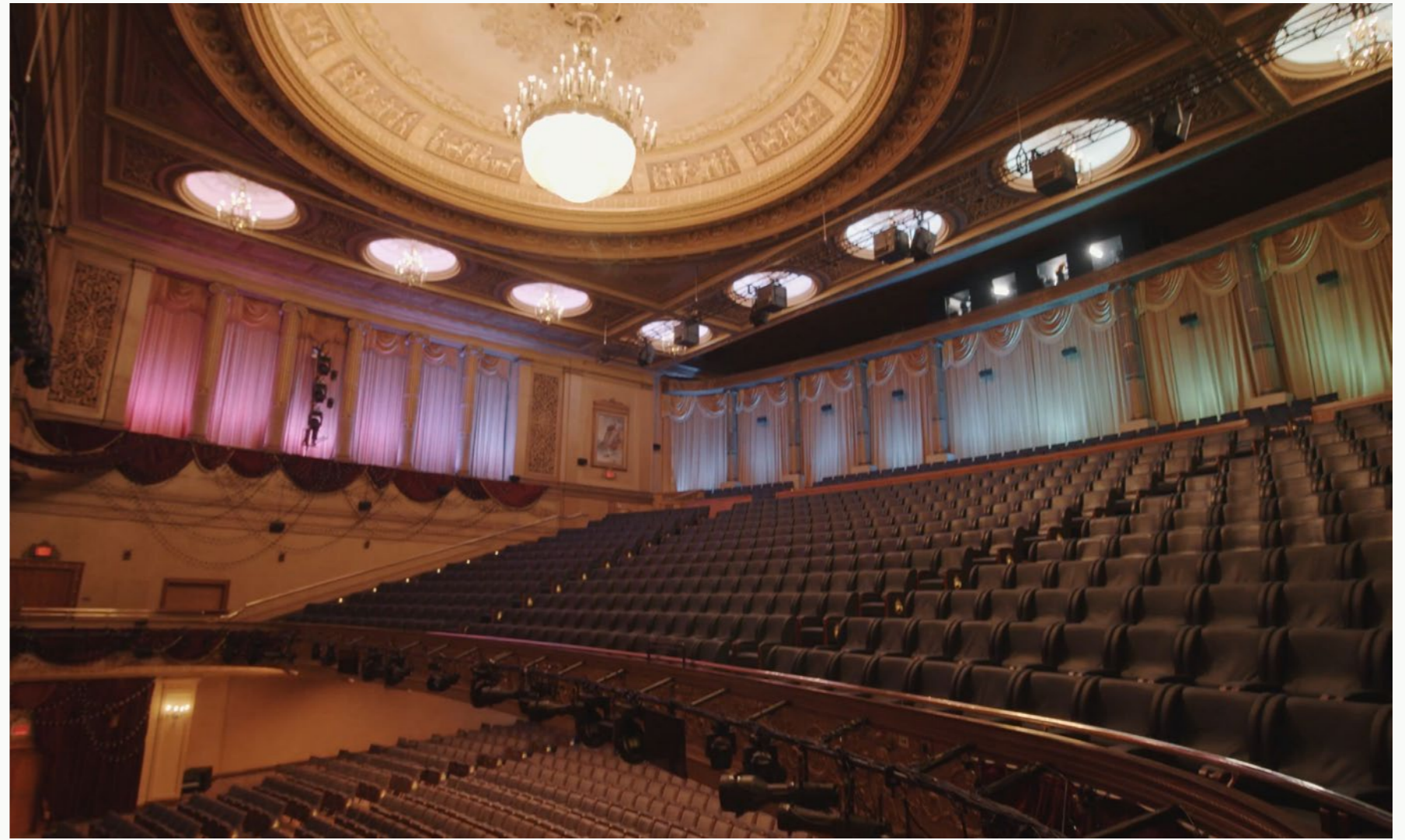


Regent Theatre, Melbourne

The refurbishment of Melbourne's historic Regent Theatre was a significant milestone in Digilin's long history with performing arts centres. Undertaken in close cooperation with the venue's technical team, the DMX controlled RGBW linear lighting system developed for Regent Theatre is truly state-of-the-art. In fact, several upgrades and new features were developed and built into our already exceptional CV DMX Driver range during this project to accommodate its demanding requirements.

The main lighting system is comprised of Javelin profiles with dual RGB and white LED modules creating a full RGBW output. We measured the CCT of the theatre's existing incandescent luminaires at 2200K and used a corresponding white LED to match these. The linear systems were broken into hundreds of short lengths and built into coves around the auditorium's many ceiling roses, curtains and other structural elements, completely concealing the luminaires. Our CV DMX Driver range was selected by the technical team as smooth, stable dimming and extreme precision at minute light levels was a non-negotiable requirement. The many DMX personalities available in the series also allow the venue to select the configuration best suited to their immediate requirements resulting in zero compromise dimming and broadcast quality outcomes.

Architecture and Heritage Consultant: Lovell Chen
Distribution Partner: Buckford Illumination Group
Images: BeVisuals





Auditorium - Ceiling Roses and Covers



Javelin 45



CV DMX Drivers



CV Repeaters



Foyer - Vaulted Ceilings



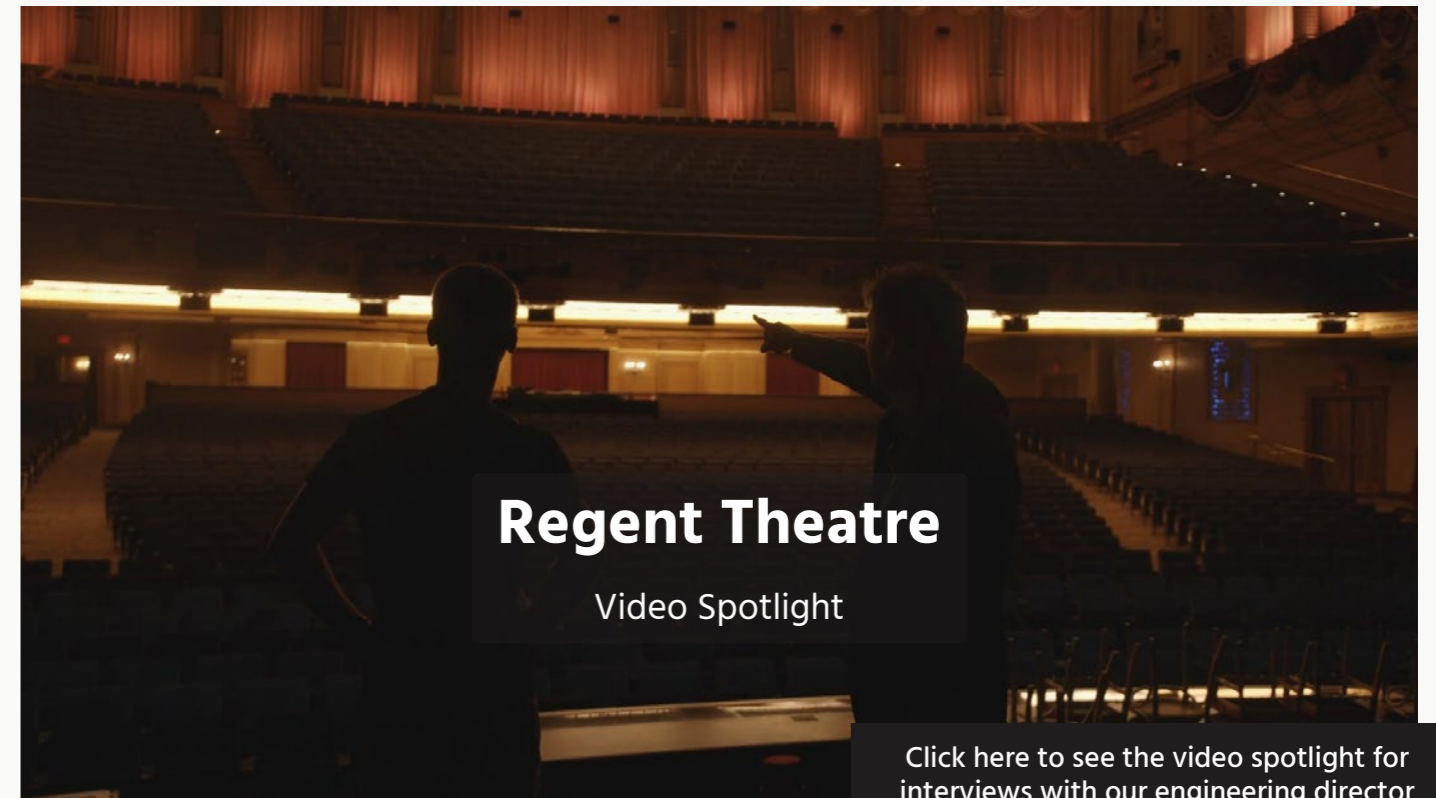
Javelin 18



CV DMX Drivers



CV Repeaters



Regent Theatre

Video Spotlight

[Click here to see the video spotlight for interviews with our engineering director and venue technical staff](#)

Her Majesty's Theatre, Adelaide

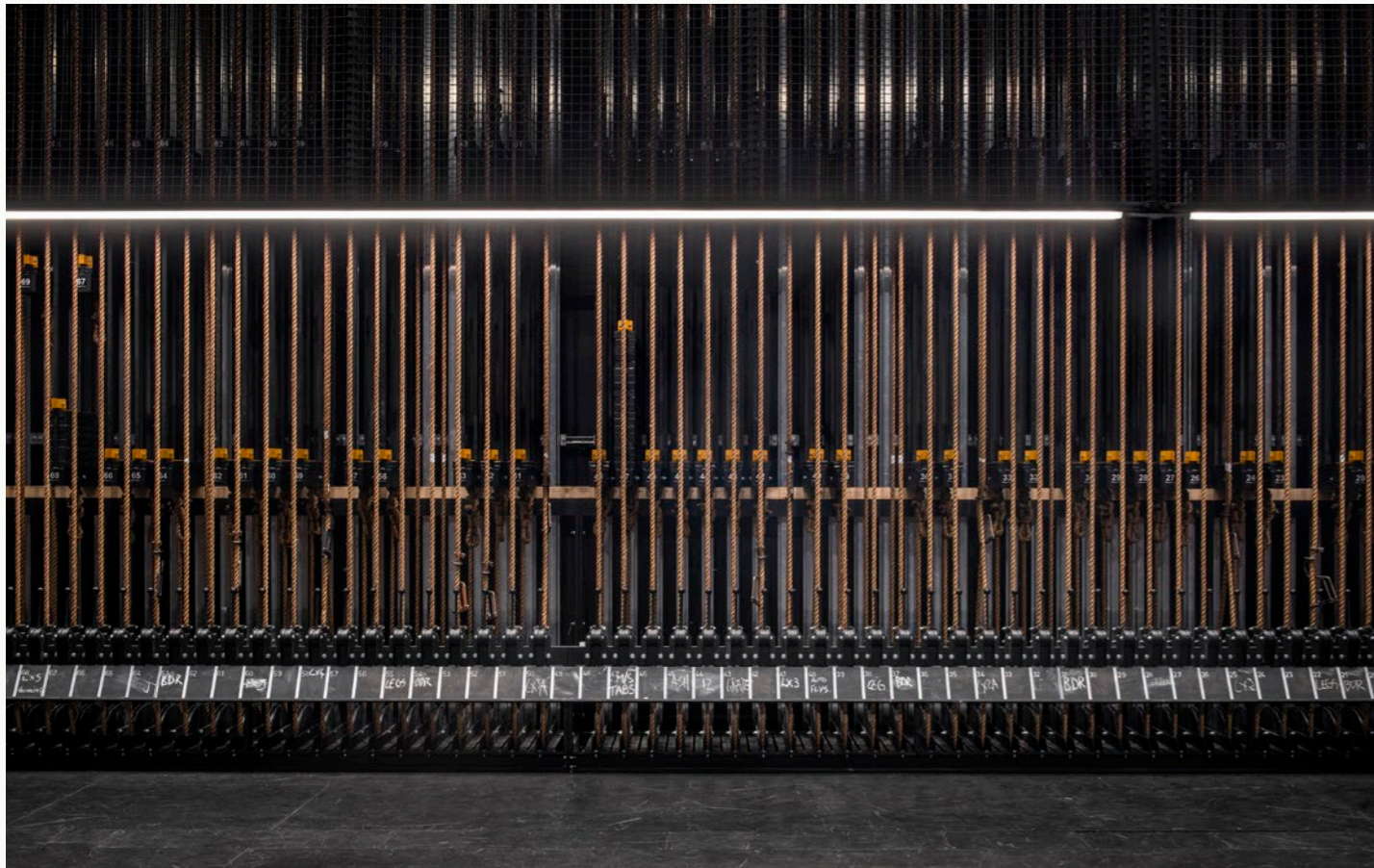
Initially constructed in 1913, the theatre's redevelopment was designed by COX Architecture, Aurecon & Schuler Shook with construction undertaken by Hansen Yuncken.

Digilin is proud to see its lighting and control products installed in many areas of the historic building, including the feature staircases, dressing rooms and bathrooms, backstage and in the venue's many bars and connected elevators.

HaloFlex is used extensively throughout the building, excellently complementing its flowing shapes and COX's 'Ribbon' concept, which informed its interior design response. This is particularly apparent in the feature stairs and surrounding areas, where HaloFlex is used to contour the underside of the staircases and the ceiling edges.

Digilin's Space linear systems configured in highoutput white/blue were employed for the theatre's backstage areas, powered by our 2 channel CV DALI drivers. Our CV PWM Repeaters have been used extensively throughout the project to increase driver capacities without using extra DALI addresses, contributing to the cost effectiveness without compromising on quality.

Theatre Consulting: Schuler Shook
Engineering: ARUP & Aurecon
Architecture: COX Architecture
Distribution Partner: HI Lighting SA
Photography: David Sievers





Backstage



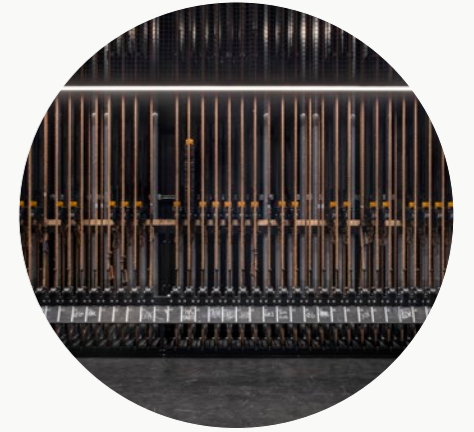
Space



CV DALI Drivers



CV Repeaters



Feature Staircases & Ceilings



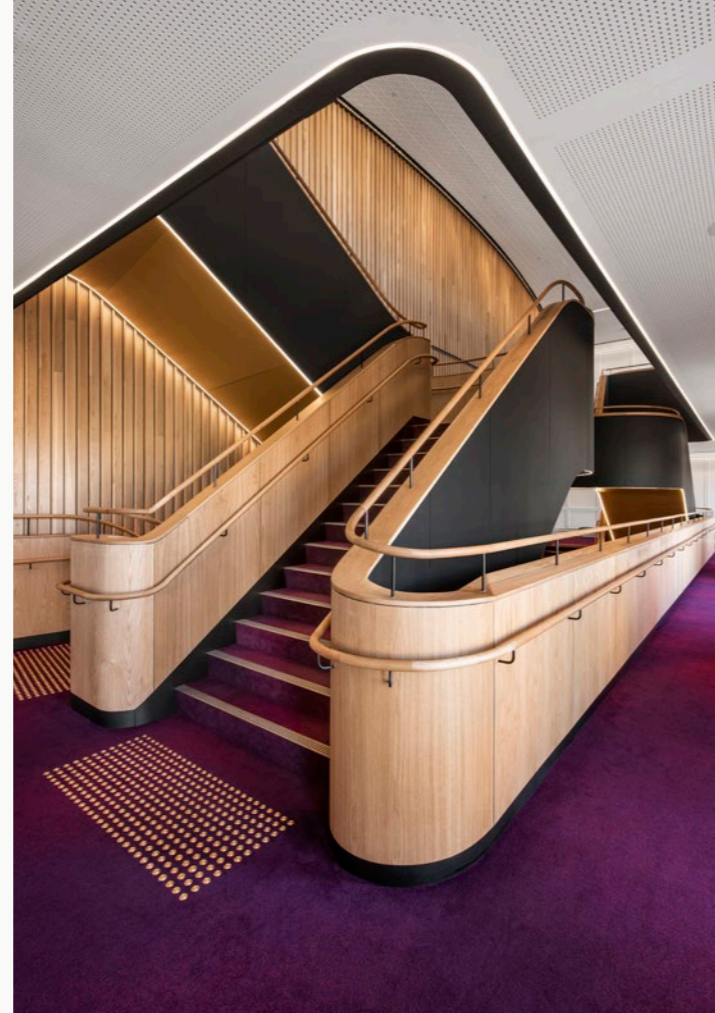
HaloFlex



CV DALI Drivers



CV Repeaters



Dressing Rooms



Corner



CV DALI Drivers



CV Repeaters





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