



HaloFlex

PRODUCT GUIDE

HaloFlex is a specification-grade, IP68 flexible linear lighting system designed for high-exposure exterior environments and complex curved architectural applications. Available in front-lit and side-lit formats, it supports a wide range of outputs including fixed white, tuneable white, RGB, RGBW, and pixel-controlled DMX.

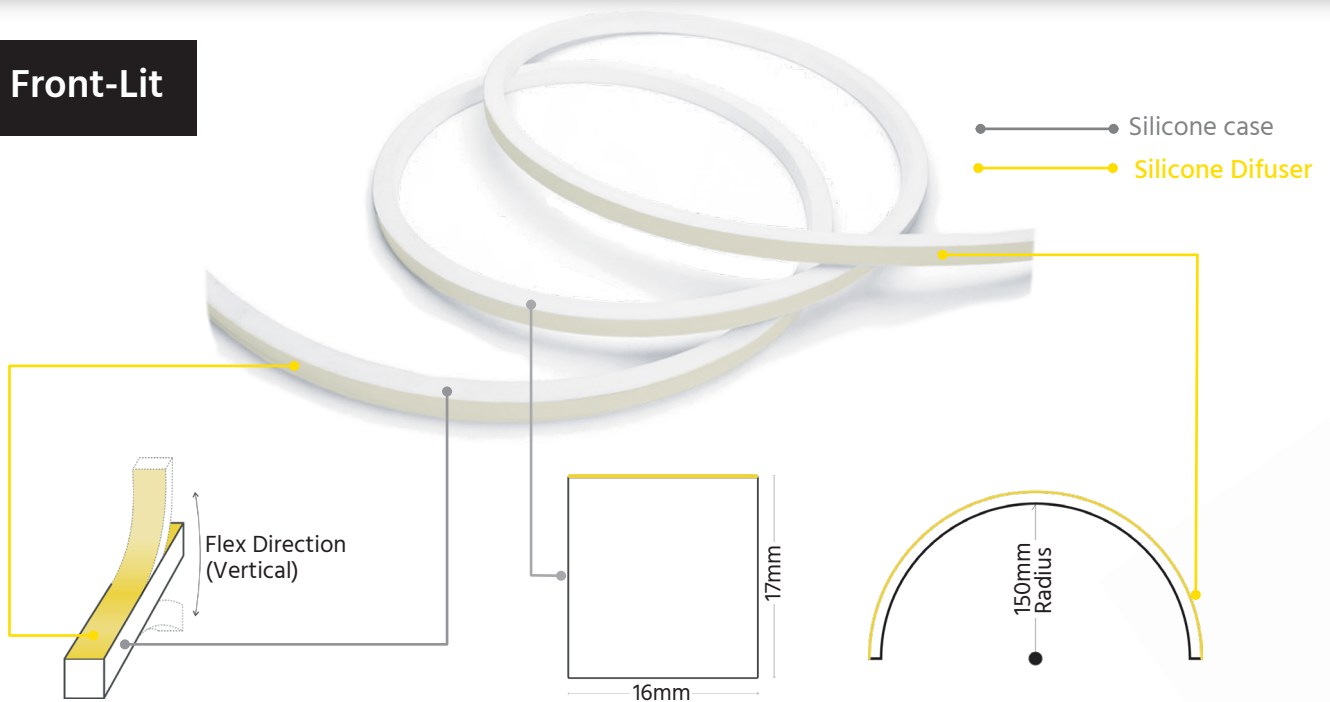
Engineered with premium LEDs, a 4oz copper PCB, and silicone encapsulation for dot-free, long-term performance, HaloFlex delivers exceptional durability and visual quality. Suitable for both exterior and interior use, it is ideal for coves, contours, and architectural features where precision and reliability matter.

Front-Lit & Side-Lit Solutions

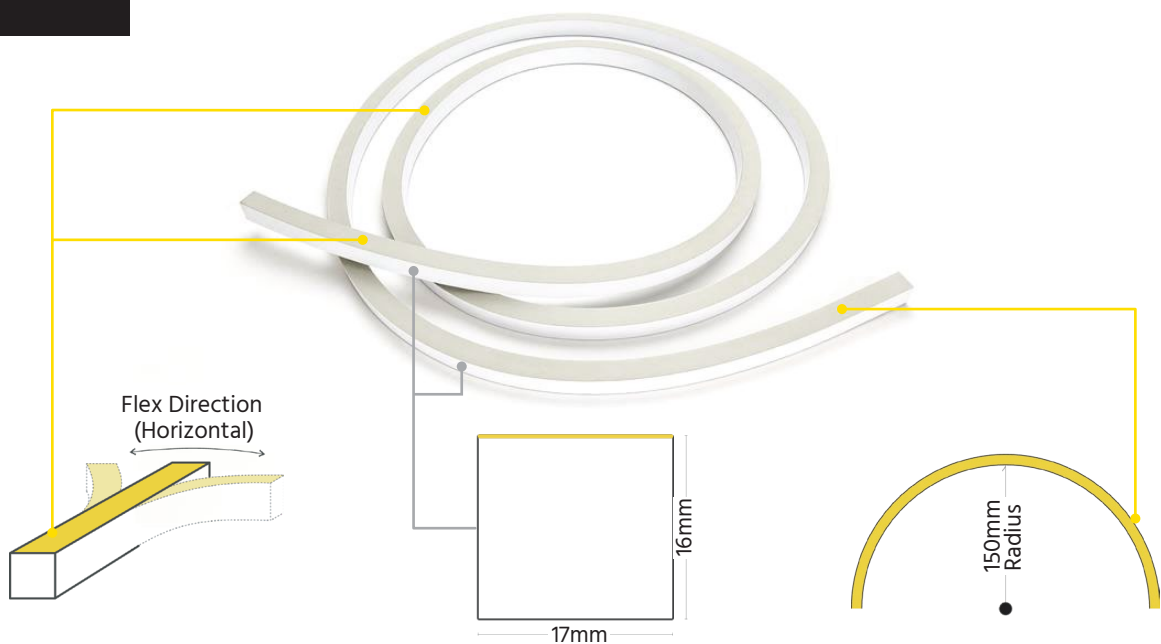
Designed to Meet Every Challenge

To meet the demands of modern architecture, HaloFlex is offered in two purpose-designed formats: front-lit (vertical bending) and side-lit (horizontal bending). Together, they provide the flexibility to overcome any curvature, detail, or installation challenge while delivering continuous, high-quality illumination exactly where it is needed.

Front-Lit



Side-Lit



Features

part 1

- Seamless flexible light lines that follow any curve with precision and elegance
- High-lumen output for dramatic architectural accents and bold design statements
- Dynamic colour control with smooth mixing and rich RGBW performance
- True-to-life colour rendering for premium interiors and retail environments

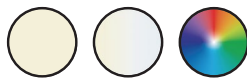
Indoor / Outdoor

- Engineered for seamless performance in both interior and exterior installations
- Delivers consistent, high-quality performance across diverse environmental conditions
- The ideal solution for façades, coves, and bespoke architectural feature lighting

From elegant interiors to rugged outdoor façades, HaloFlex delivers stunning lighting everywhere. One product, endless possibilities.

Multiple Lighting Options

- Fixed White
- Tuneable White
- RGB
- RGBW
- Fixed Colour



Choose the perfect light mode to match every mood and transform any space, bringing your design to life with everything from clean architectural white to vibrant colour scenes.

High Quality Light

- 6–15 W/m
- 300–800 lm/m
- CRI 80 / 90

HaloFlex delivers high output, efficient illumination with true-to-life colour rendering, ensuring spaces appear vivid, premium, and visually comfortable. By combining high-lumen output with exceptional color accuracy, it serves as the definitive solution for architectural, retail, and hospitality environments where visual integrity is paramount.

Features

part 2

- Silicone lens for even diffusion and long-lasting protection
- Built to survive coastal sun, salt air, and extreme weather conditions
- Designed for continuous runs with consistent performance and minimal power loss
- Engineered for fast, clean installation with sleek mounting profiles

Outstanding Protection

- IP68 Ingress Protection
- IK08 Impact Resistant
- Silicone Encapsulation

The silicone encapsulation creates a resilient, sealed protective layer built to withstand dust, water, and heavy impact, keeping the LEDs safe and stable even in the harshest environments.

Environmental Resistance

UV & Salt Resistant

Engineered to resist UV fading, corrosion, and harsh weather, HaloFlex is the definitive choice for beachfront, exterior, and high-exposure installations. Installed in coastal and outdoor environments, HaloFlex stays high output and stable even under intense sun and salty air.

Smooth Installation & Flexible Design

- Customised Aluminium Mounting Profiles
- Customised Silicone Mounting Profiles
- 150 mm Minimum Bend Radius

At Digilin, we ensure effortless installation through clean, professional mounting and the flexibility to transition smoothly around curves and corners. HaloFlex adapts to any architectural geometry, delivering seamless light lines with a premium, high-performance finish every time.

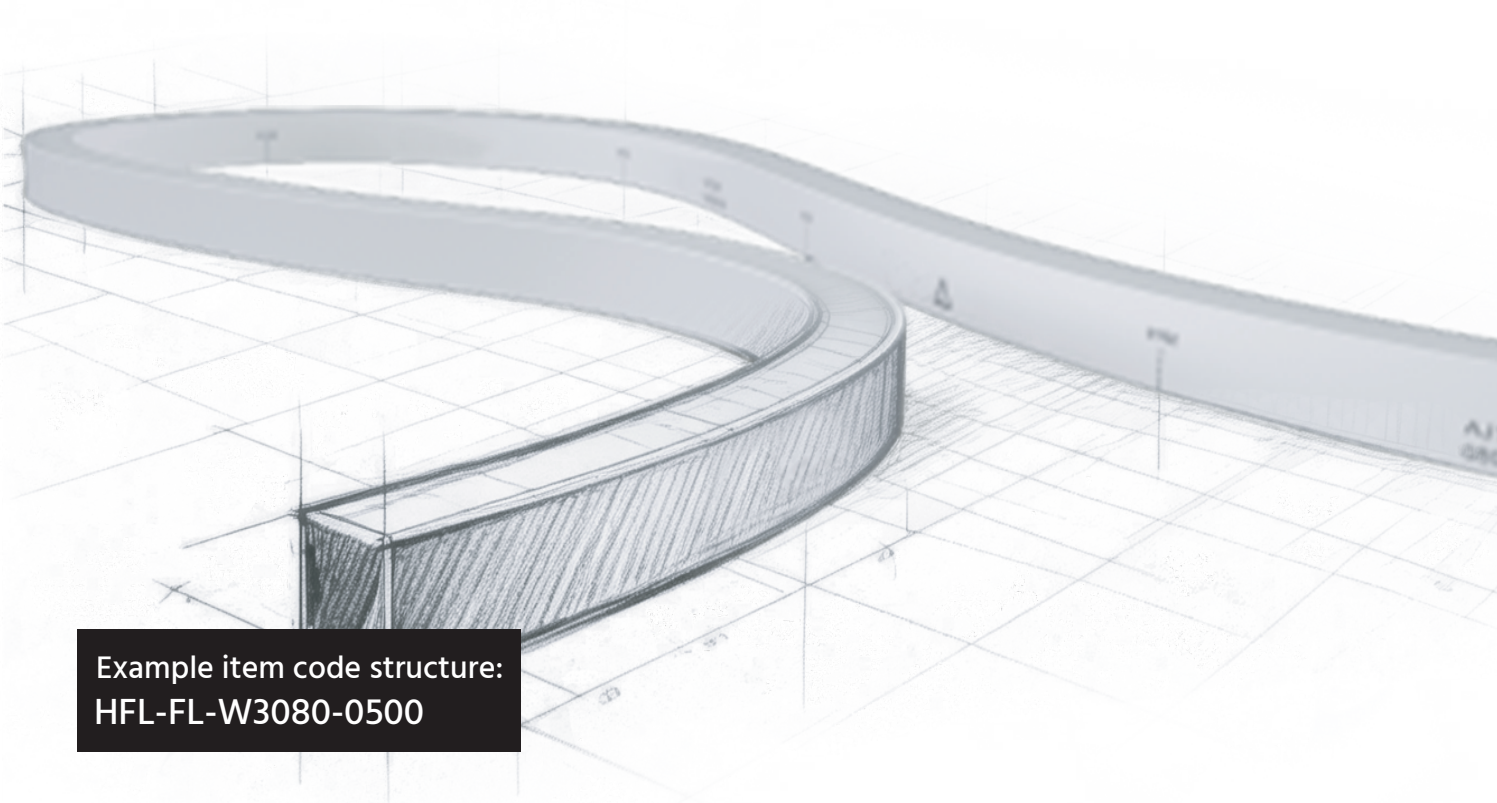
Specifications

Illumination Type	Front-Lit (Vertical Bending) or Side-Lit (Horizontal Bending)			
LED Colour	Fixed white/Single Colour	RGB	RGBW	Tuneable White
CCT/Wavelength	White: 2700K, 3000K, 3500K, 4000K Red: 618-624nm Amber: 588-594nm Green: 522-528nm Blue: 468-474nm	Red: 618-624nm Green: 522-528nm Blue: 468-474nm	Red: 618-624nm Green: 522-528nm Blue: 468-474nm White: 2700K, 3000K, 4000K	2200K-5700K
Delivered Lumens	300-800lm/m	400m/m	560lm/m	220-270lm/m
Power	6W-15W/m	12W/m	15W/m	12W/m
Typical CRI	80 or 90	-	80	80
Colour Consistency (LED)	3 SDCM*	-	-	-
Performance	L90 (6k) >60,000hrs	-	-	-
Module Length	55.56mm/83.33mm	83.33mm	83.33mm	83.33mm
Operating Temperature	-40 to 45/65 degrees Celsius	-40 to 55 degrees Celsius	-40 to 45 degrees Celsius	-40 to 55 degrees Celsius
Maximum Continuous Feed	30m Single, 60m Dual (6W/m) 10m Single, 20m Dual (15W/m)	10m Single, 20m Dual	8m Single, 16m Dual	15m Single, 30m Dual
Input Voltage	24VDC			
IP Rating	IP68 (with Injection Moulded Connectors and End Caps)			
IK Rating	IK08			
Beam Angle	Approx. 115 degrees			
Build Material	Silicone			
Minimum Bend Radius	150mm			
Dimensions	Front Lit: 16mm (width), 17mm (height) Side Lit: 17mm (width), 16mm (height)			
Weight	Approx. 0.5kg/m			
Durability	UV, Saltwater, Solvent and Flame Resistant			
Connector Options	Injection Moulded Connectors and End Caps (fitted), or Snap Connectors and End Caps (IP67) (supplied separately)			
Mounting Options	3D Bending Silicone, Standard or Serrated Aluminium, or Transparent Plastic			

*Applicable to fixed white only



Item Code Structure



Example item code structure:
HFL-FL-W3080-0500

HFL	FL	W	30	80	0500
Family	Bending Direction	LED Colour Wavelength	CCT	Typical CRI	Delivered Lumens
HaloFlex	Front Lit	Fixed White	3000K	80	500lm/m

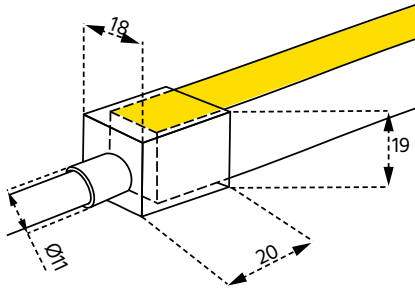
Family	Bending	Type	CCT / Colour	CCT/Colour Code	CRI	CRI Code	Lumens Group	
HaloFlex		Fixed White	2700K	27			300 / 500 / 800	
			3000K	30				
			3500K	35	80/90	80/90		
			4000K	40				
	Front-Lit Side-Lit	FL SL	Tuneable White	2200K–5700K	W22W57	80	80	250
			RGBW	2700K	RGBW27	80	80	600
				3000K	RGBW30			
				4000K	RGBW40			
			RGB	RGB	RGB	–	–	400
			Red	Red	R630	–	–	200
			Amber	Amber	A590	–	–	200
			Green	Green	G530	–	–	500
			Blue	Blue	B475	–	–	100
		RGBW Pixel*	3000K	RGBW30	80	–	700	

*HaloFlex RGBW3080 Pixel series have a special code PXS12, example: HFL-FL-RGBW3080-0700-PXS12

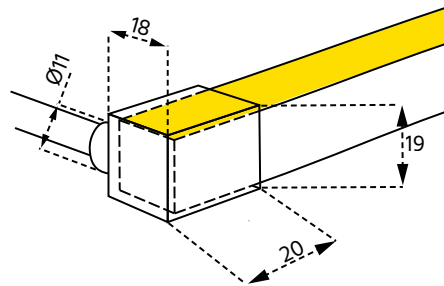


Silicone Injection Moulded & Flexible Connector

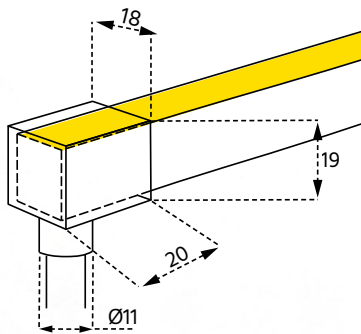
Digilin's silicone injection process fully seals and protects the electronics, creating a waterproof module (IP68) designed for long-term reliability. The flexible encapsulation guards against moisture, dust, vibration, and temperature extremes while maintaining stable thermal and electrical performance. This makes it a durable, low-maintenance solution for exterior and demanding environments.



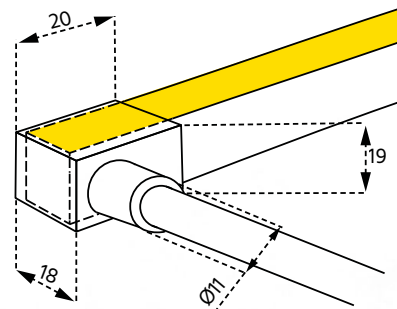
End Feed Connector



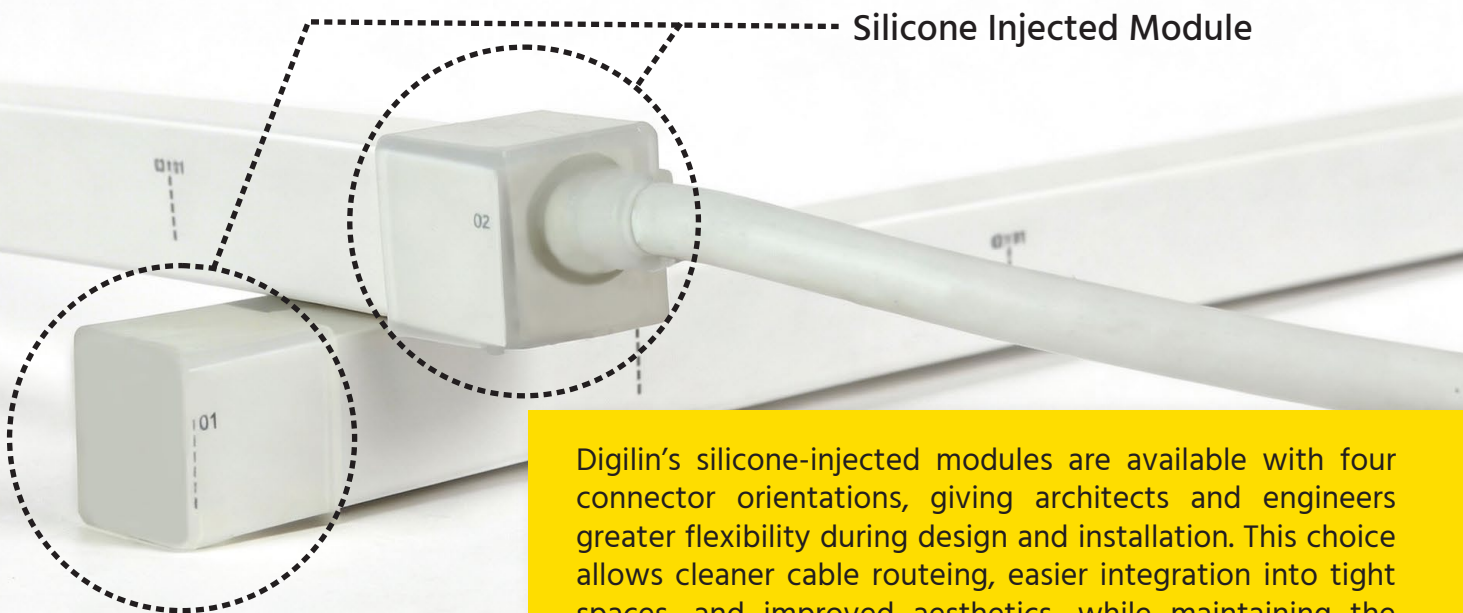
Left Side Feed Connector



Rear Feed Connector



Right Side Feed Connector



Digilin's silicone-injected modules are available with four connector orientations, giving architects and engineers greater flexibility during design and installation. This choice allows cleaner cable routing, easier integration into tight spaces, and improved aesthetics, while maintaining the same high level of environmental protection and reliability.

HaloFlex Connectors Side-Lit Diagram Orientation

To address diverse environmental conditions and meet a wide range of design requirements, HaloFlex offers a comprehensive selection of connector models engineered for performance and reliability.

All HaloFlex connectors are expertly terminated, allowing us to maintain strict quality control and ensure compliance with local standards.

For detailed specifications and application guidance, please contact our technical team for professional support.

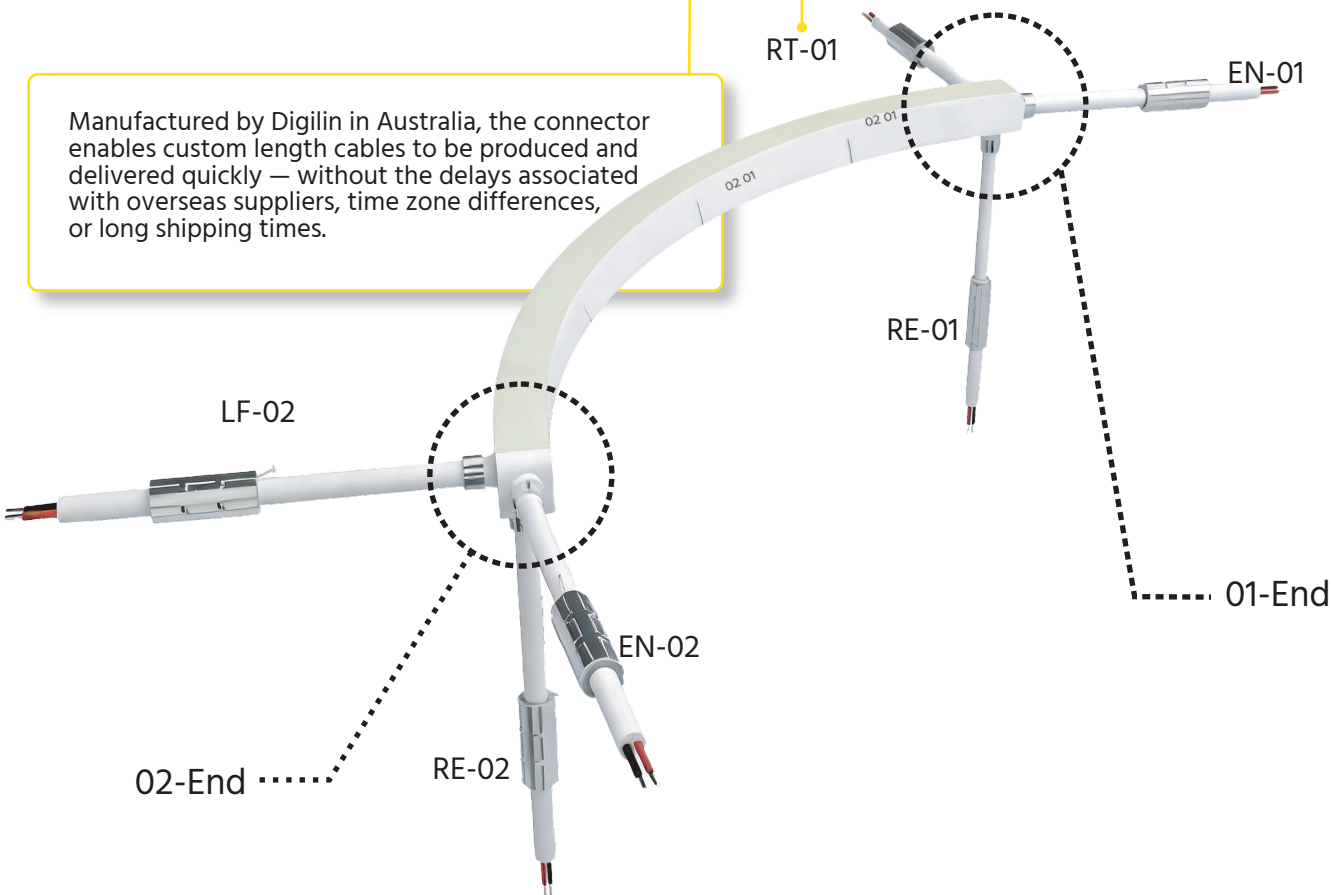
Example item code structure:

HFL-SL-SIM-2C-RT-01-0300

HFL	SL	SIM	2C	RT	01	0300
Family	Bending Direction	Seal Type	Cable Count	End Orientation	End Type	Cable Length
HaloFlex	Side-Lit	Silicone Injection Moulded	2 Cores	Right Side Feed	01	300mm Cable

Example of Main Diagram Orientation:
Side-Lit main diagram orientation

Manufactured by Digilin in Australia, the connector enables custom length cables to be produced and delivered quickly – without the delays associated with overseas suppliers, time zone differences, or long shipping times.



HaloFlex Connectors Front-Lit Diagram Orientation

Example item code structure:
HFL-FL-SIM-2C-LF-02-0300

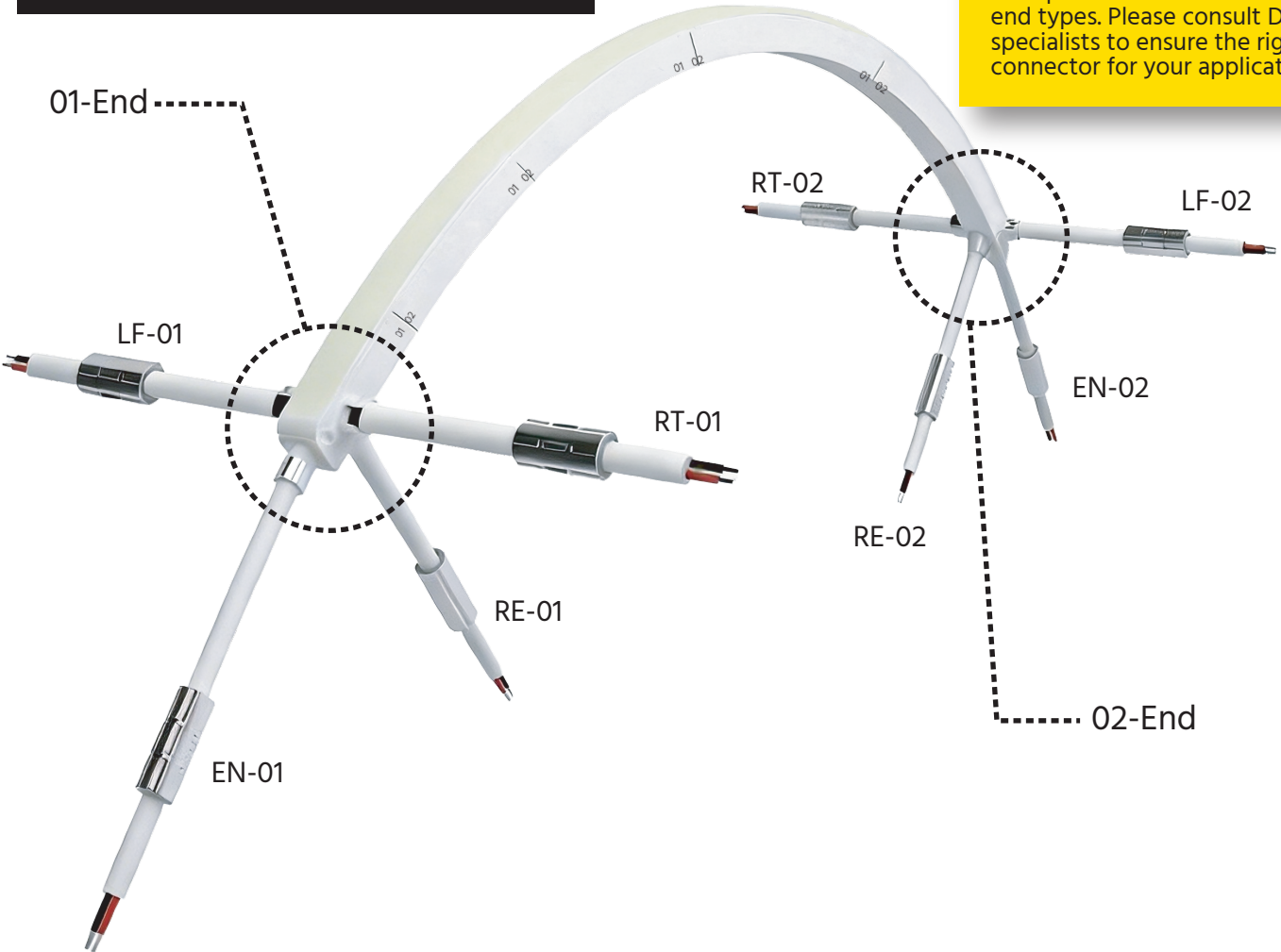
HFL	FL	SIM	2C	LF	02	0300
Family	Bending Direction	Seal Type	Cable Count	End Orientation	End Type	Cable Length
HaloFlex	Front-Lit	Silicone Injection Moulded	2 Cores	Left Side Feed	02	300mm Cable

The connector configuration of HaloFlex is tailored to the colour type of the system, ensuring the correct signal and power delivery for each lighting solution. This optimised cabling architecture simplifies installation while ensuring reliable performance across different lighting applications.

- White: 2-core
- Tunable White: 3-core
- RGB: 4-core
- RGBW: 5-core
- Pixel: 3-core

Example of Main Diagram Orientation:
Front-Lit main diagram orientation

To accommodate different installation environments, connectors are offered with multiple end orientations and end types. Please consult Digilin specialists to ensure the right connector for your application.



Wiring Diagram

Example of Wiring Diagram:
HFL-FL-W3080-0500

Please refer to the detailed specification sheet of HFL-FL-W3080-0500, and pay close attention to the following two key parameters applicable to this application.

Delivered Lumens	300lm/m, 500lm/m, 800lm/m
Power	6W-15W/m
Maximum Continuous Feed	30m Single, 60m Dual (6W/m) 10m Single, 20m Dual (15W/m)

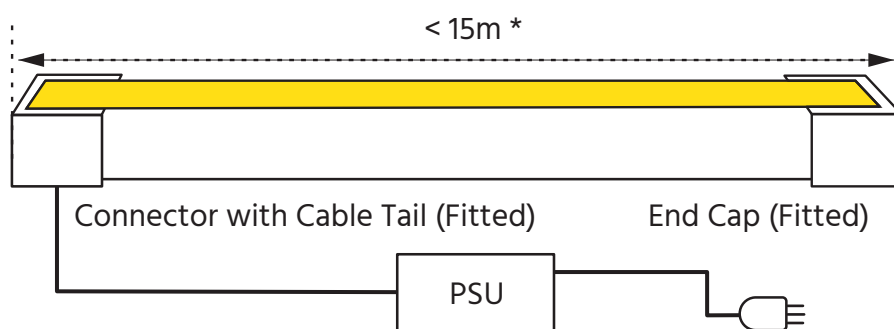
As indicated in the specification sheet, HFL-FL-W3080 is available in 300 lm/m, 500 lm/m, and 800 lm/m lumen groups. Different power levels result in different Maximum Continuous Feed lengths.

This example applies to the **500 lm/m (12 W/m)** version:

- 15 m — Single Feed
- 30 m — Dual Feed

Solution 1

Installation Diagram for HFL-FL-W3080-0500 up to 15 m



*HFL-FL-W3080-0300: 30m, HFL-FL-W3080-0800: 10m

For HFL-FL-W3080-0300, with a power consumption of 6 W/m, the Maximum Continuous Feed is:

- 30 m — Single Feed
- 60 m — Dual Feed

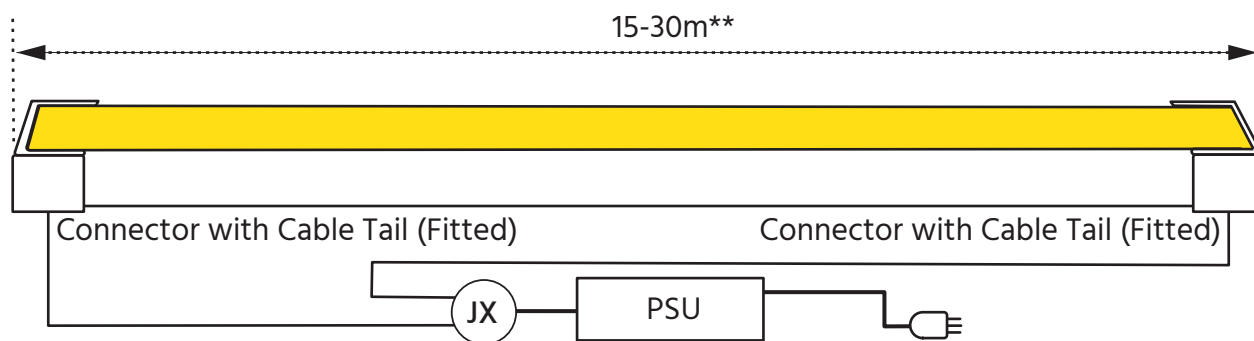
For HFL-FL-W3080-0800, with a power consumption of 15 W/m, the Maximum Continuous Feed is:

- 10 m — Single Feed
- 20 m — Dual Feed

Please consult Digilin specialists to determine the appropriate wiring diagram for your application.

Solution 2

Installation Diagram for HFL-FL-W3080-0500 Between 15 to 30m:



**HFL-FL-W3080-0300: 30-60m, HFL-FL-W3080-0800: 10-20m

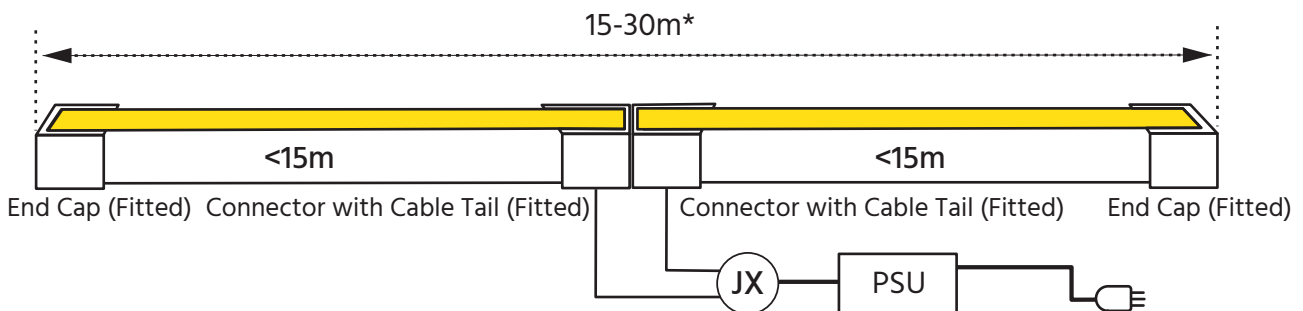
Wiring Diagram

Example of Wiring Diagram:
HFL-FL-W3080-0500

Please refer to the detailed specification sheet of HFL-FL-W3080-0500.

Solution 3

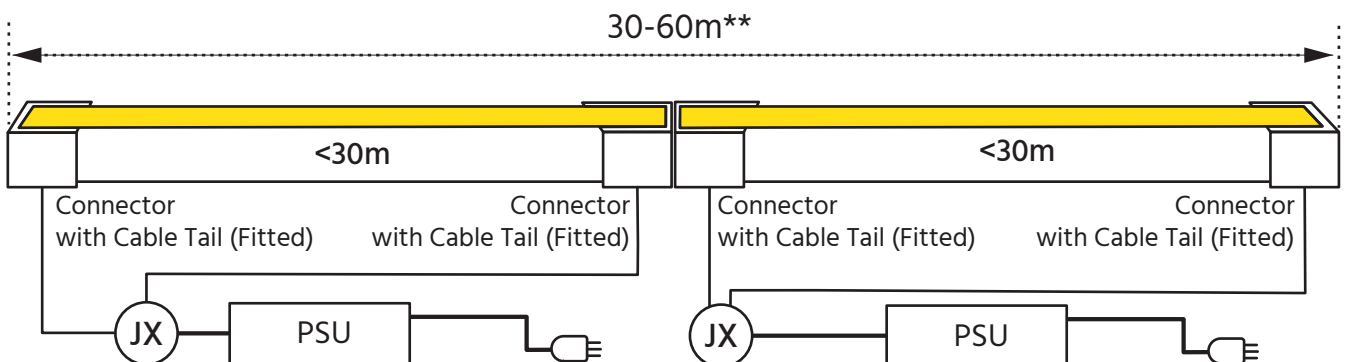
Installation Diagram for HFL-FL-W3080-0500 Between 15 to 30m:



*HFL-FL-W3080-0300: 30-60m, HFL-FL-W3080-0800: 10-20m

Solution 4

Installation Diagram for HFL-FL-W3080-0500 exceeding 30m



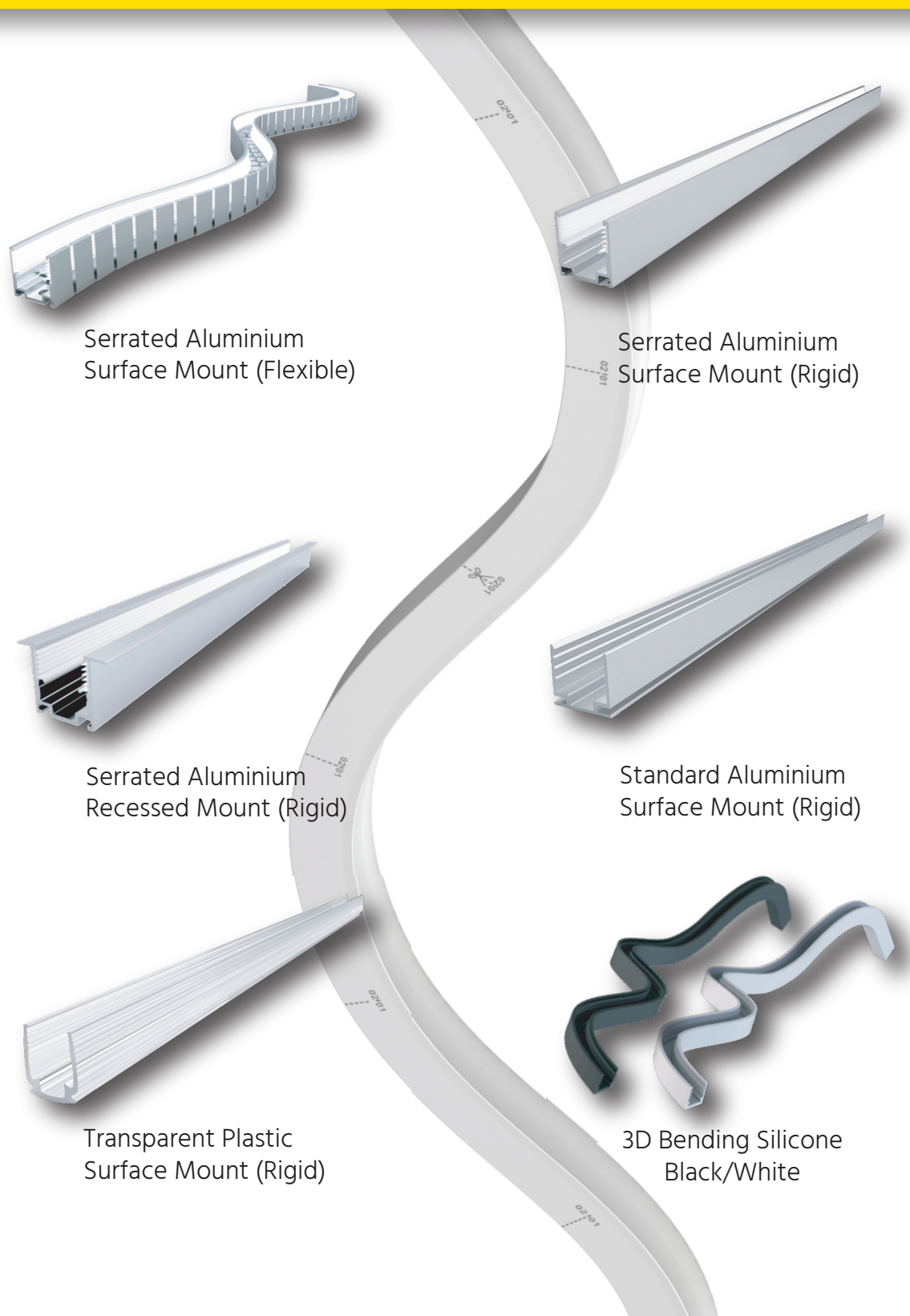
**HFL-FL-W3080-0300: 60-120m, HFL-FL-W3080-0800: 20-40m

Wiring configurations for different HaloFlex models may vary depending on factors such as LED quantity, Lumen output, and power supply requirements. For project specific wiring schematic and technical guidance, please consult Digilin engineering personnel.

Profiles

HaloFlex profiles are precision engineered extrusions designed to support architectural lighting applications. As part of the complete HaloFlex system, they integrate seamlessly to ensure reliable performance and consistent lighting quality.

Available in multiple materials, mounting options, and rigid or flexible formats, the HaloFlex range supports both standard and customised designs. With local stock holding and professional in-house preparation, we configure each order to suit project requirements while maintaining quality, consistency and dependable lead times.



Serrated Aluminium
Surface Mount (Flexible)

Serrated Aluminium
Surface Mount (Rigid)

Serrated Aluminium
Recessed Mount (Rigid)

Standard Aluminium
Surface Mount (Rigid)

Transparent Plastic
Surface Mount (Rigid)

3D Bending Silicone
Black/White

Powered by DIGILIN CONTROL

Designed and manufactured in-house, Digilin's CV drivers and repeaters use top-tier electronic hardware and employ sophisticated control techniques to enable the best control outcomes possible for constant voltage LED lighting systems. Digilin drivers provide specialist capabilities and the highest levels of performance available on the market.

We are experts in precision dimming and applying these technologies to control fixed colour and colour-mixing LEDs. Directly interfacing into our controllers, these devices guarantee optimal compatibility and take the performance of our linear lighting systems and compact exterior range to extraordinary levels.



CV DALI Drivers

Designed for precise control of constant voltage LED systems, these drivers integrate seamlessly into DALI lighting networks and provide full dimming functionality.

Available in single-channel, tuneable white, and 3-channel (RGB) versions, the DALI series uses PWM outputs with Digilin's smoothed transition technology for virtually flicker-free dimming, even at low levels.



Developed for theatres, auditoriums, and performance spaces, Digilin's Smooth DALI technology provides ultra-precise dimming with over 65,000 steps down to 0.009%, enabling smooth, near-imperceptible transitions, refined fade-to-black scenes, and comfortable lights-up moments. Designed and manufactured in Australia, Digilin CV DALI Drivers deliver world-leading DALI dimming precision with proven reliability.



CV Smooth DALI Driver



Powered by DIGILIN CONTROL



CV DMX Driver

Engineered for outstanding dimming performance, Digilin's constant voltage DMX drivers combine premium hardware with advanced control techniques and multiple DMX personalities. Each driver functions as a multi-channel DMX receiver with PWM outputs, offering eight selectable personalities that balance dimming resolution and PWM frequency to suit different applications—from ultra-smooth fades to flicker-free performance for video. Personalities range from high-resolution 16-bit dimming to high-frequency PWM, and can be easily selected via RDM or preset for long-term operation.

PWM repeaters provide a cost-effective way to expand LED lighting systems without adding extra control protocols or signal processing. By repeating the existing PWM signal from a DMX, DALI, or analogue driver through high-capacity outputs, they ensure consistent dimming across large systems from a single control source. This approach reduces the number of drivers and controllers required, helping keep complex lighting systems financially viable.



CV PWM Repeater

Controllers



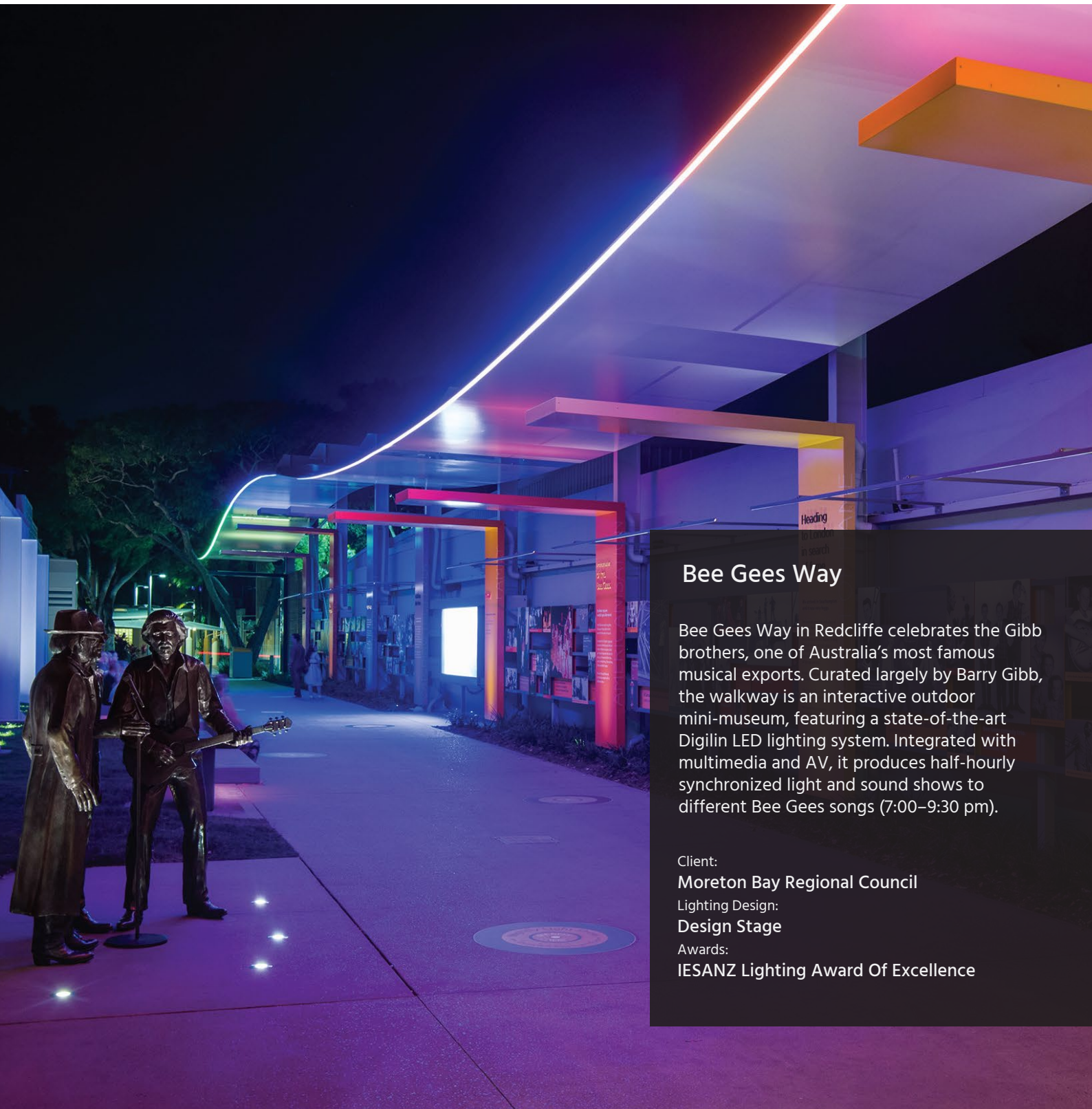
Exceptionally powerful yet intuitive, Digilin's DMX and DALI controllers are designed to give non-technical users simple, localised control of lighting systems. Advanced control capabilities are paired with a clear, user-focused interface, making it easy to manage scenes, levels, and transitions without specialist knowledge. Built for reliability and seamless integration, these controllers provide flexible, dependable control across a wide range of architectural and performance lighting applications.

Project Portfolio

Digilin has delivered lighting solutions across a wide range of sectors, from theatres and streetscapes to hospitals, universities and defence facilities.

Our products are trusted for performance and reliability, and we specialise in tailored, project-specific solutions. From creative concepts to complex technical designs, we help bring ambitious ideas to life through practical engineering and in-house manufacturing.

HaloFlex has been used across a range of projects, proving its flexibility and durability in real architectural environments.



Bee Gees Way

Bee Gees Way in Redcliffe celebrates the Gibb brothers, one of Australia's most famous musical exports. Curated largely by Barry Gibb, the walkway is an interactive outdoor mini-museum, featuring a state-of-the-art Digilin LED lighting system. Integrated with multimedia and AV, it produces half-hourly synchronized light and sound shows to different Bee Gees songs (7:00–9:30 pm).

Client:

Moreton Bay Regional Council

Lighting Design:

Design Stage

Awards:

IESANZ Lighting Award Of Excellence

Project Portfolio

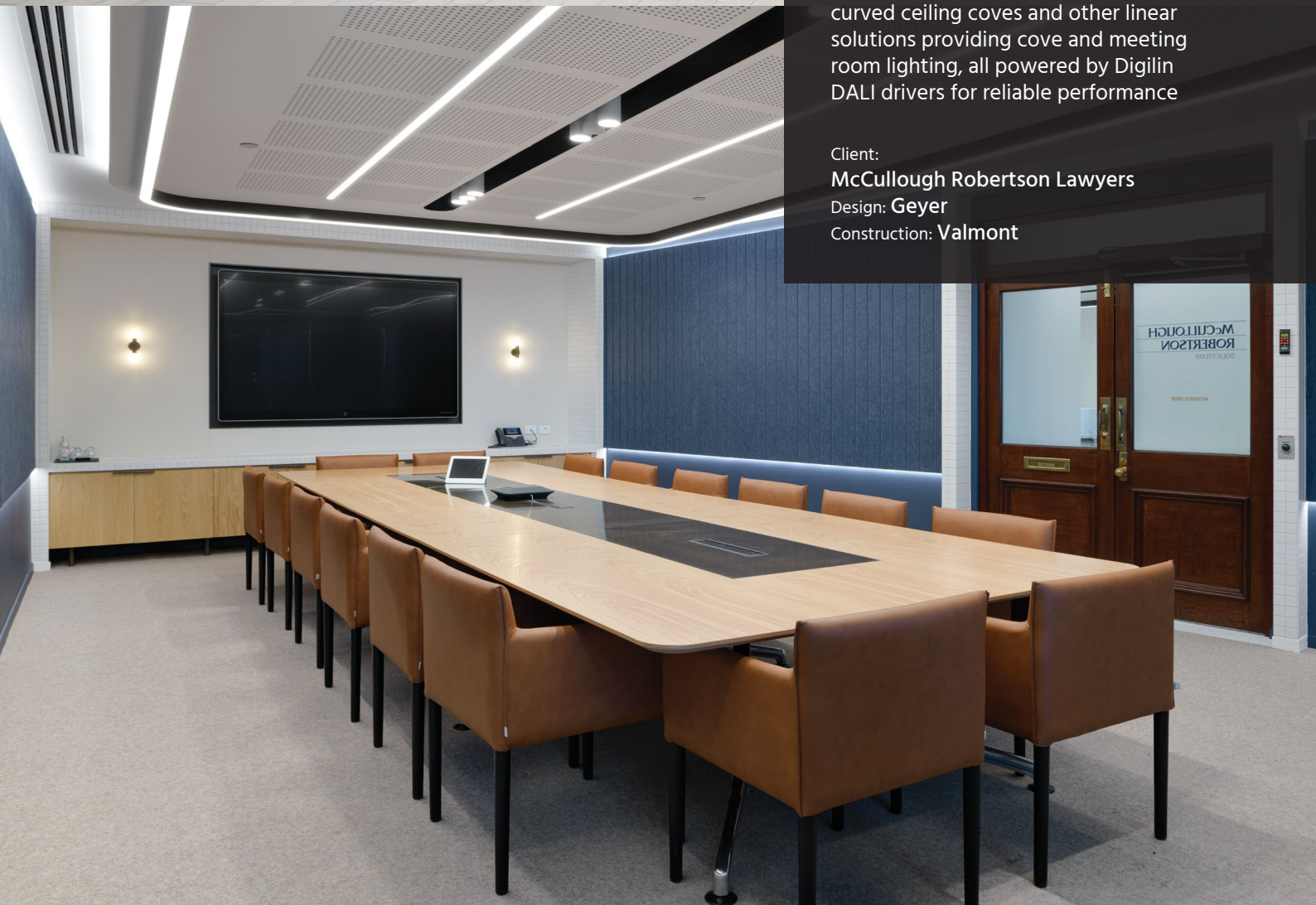


McCullough Robertson Lawyers

The Valmont & Geyer team completed the refurbishment of McCullough Robertson's Brisbane office.

Digilin linear systems are integrated throughout, with HaloFlex accenting curved ceiling coves and other linear solutions providing cove and meeting room lighting, all powered by Digilin DALI drivers for reliable performance

Client:
McCullough Robertson Lawyers
Design: **Geyer**
Construction: **Valmont**

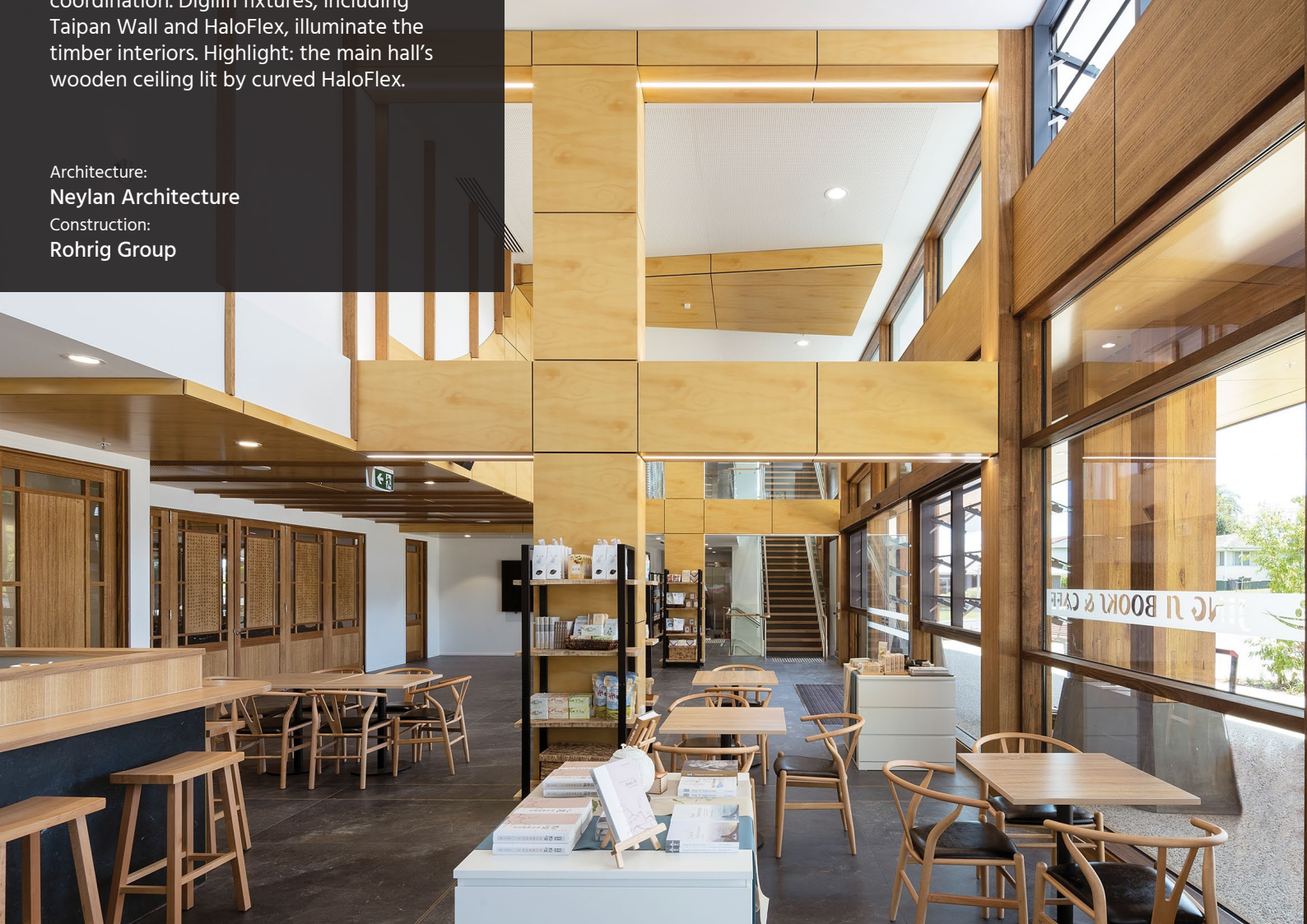


Project Portfolio

Tzu Chi Community Centre

Exceptional result at the Tzu Chi Foundation's new 5-level Brisbane community centre. The hub features childcare, offices, lecture hall, café, and bookstore, supporting disaster relief coordination. Digilin fixtures, including Taipan Wall and HaloFlex, illuminate the timber interiors. Highlight: the main hall's wooden ceiling lit by curved HaloFlex.

Architecture:
Neylan Architecture
Construction:
Rohrig Group



Project Portfolio



Western Sydney Startup Hub

Located in North Parramatta and powered by Spacecubed, WSSH provides flexible workspace solutions for startups and growing businesses.

Digilin delivered the architectural lighting throughout the hub, utilising Haloflex linear systems to define collaborative areas and Javelin luminaires for focused task lighting. The system is fully integrated with Digilin controls, ensuring efficiency, flexibility and long-term performance.

The result is a clean, contemporary lighting environment that supports productivity and reflects the hub's forward-thinking identity.

Client:
Urban Growth NSW
Architecture:
TKD Architects



Project Portfolio



MexiCairns

Located in the heart of Cairns, MexiCairns required a lighting system that could transition seamlessly from daytime dining to vibrant nightlife.

Digilin delivered a layered scheme using HaloFlex, MicroFlex and a range of architectural luminaires, supported by integrated DALI, DMX and Bluetooth control.

The result is a flexible, dynamic lighting environment tailored to a multi-use hospitality venue.

Lighting Design:
Sequal Consulting Group
Interior Design:
Myriad Design



About Digilin Technologies

Specialist Light Engineering Since 1980

Digilin is an Australian manufacturer of high-performance lighting fixtures and specialist control technologies engineered for the built environment. For over four decades, we have partnered with architects, engineers and lighting designers to transform complex design intent into precise, reliable lighting systems.

We do not simply assemble luminaires. We engineer light.

Our expertise spans both architectural fixtures and advanced electrical control devices, including DALI and DMX drivers, repeaters and controllers, enabling fully integrated solutions from optical performance to system intelligence. This dual capability is central to our philosophy: performance is not achieved through components alone, but through the orchestration of light, optics, electronics and control.

Our portfolio includes linear systems, architectural luminaires and purpose-built solutions for specialist environments such as theatres, auditoriums, architectural grow-lighting and public art. For projects that demand more than standard products, our dedicated custom development team works directly with consultants and contractors to design and manufacture bespoke systems tailored to unique spatial, technical and performance requirements.

Proudly based in Australia, Digilin operates under strict quality assurance procedures and rigorous in-house testing to ensure long-term stability, electrical integrity and consistent photometric performance. Our products have been specified in hundreds of major architectural projects across Australia and internationally, chosen for their durability, precision and engineering integrity.

At Digilin, lighting is not an accessory to architecture.

It is a system, engineered with intent, built for performance, and designed to endure.

For expert technical guidance and specification support, our team stands ready to help bring your project vision into reality.



Image: MexiCairns Cairns City QLD

MexiCairns is a vibrant new venue in the heart of Cairns, combining a restaurant, bar, nightclub and games space within an open atrium setting. Haloflex was used throughout the project, providing flexible lighting that easily shifts from relaxed daytime dining to lively nighttime energy.

Connect With Us

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Brisbane

Socials

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