aqualux LIGHTING

Landscape
Lighting

Designed by **Aqualux**

aqualux Landscape lighting 2022

2022

aqualux LIGHTING

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JANUARY 2022

www.aqualux.com.au

aqualux
LIGHTING

When night falls, a landscape lit with skill and intent can be transformed into a visual wonderland full of texture and intrigue. Blending function and form in a way only light can achieve, landscape lighting is a space where art meets science (and safety).

Aqualux Lighting for more than 15 years has been at the forefront of Australian landscape lighting design and manufacture.
From our Sydney-based design and manufacturing facility to our national network of resellers and speciality lighting stores we have helped bring some wonder into countless homes and outdoor spaces around the country.

In 2021, Aqualux commenced a significant investment in our local manufacturing facilities, providing the foundation for continued growth and support of our customers well into the future.

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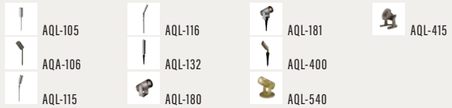
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Aqualux Attitude

Aqualux Design

At the heart of each product is a need. Identified and often in collaboration with our customers, the requirement for a particular type of lighting effect is explored and researched, simulated, and prototyped. The form should follow the function yet the process is often emergent rather than self-evident. It requires a commitment to first principles and always the question to be asked: what is it for, who is it for and how will it be made.

From Dieter Rams to Naoto Fukasawa, a line can be drawn that connects the goal of good design and the sense of harmony that should follow. This sense should encompass not only the aesthetic but also the internal construction and the installation process - good design is not superficial.

Aqualux approaches all of its product design challenges with the same principle in mind - what will achieve the objective in the most elegant way possible. This principle is applied continuously from the design phase through to manufacture and installation, including the impact on the visual environment during its lifetime as a luminaire and the environmental load created during and at the end of the product life cycle.

Engineering a balanced product that exceeds expectations in performance requires a deep understanding of the components that operate within. Our electronics engineering has always been pushing forward, rarely accepting off-the-shelf solutions when a custom-developed approach will suit better.

Advanced test and engineering equipment is necessary for this process to occur and for products to be developed that are safe, compliant, and performant. The Aqualux Lab continues to grow and is the place where our future is engineered.

Aqualux Manufacturing

For more than 30 years, Telectran & Aqualux have been involved in manufacturing both locally in Sydney and internationally. Operating a manufacturing facility requires constant attention to both small details and broad trends and movements. Over the years we have honed our ability to react quickly and nimbly to the market and other forces that shape our world.

When many of the Australian lighting companies moved their manufacturing operations overseas Aqualux adopted a flexible strategy that sought to combine the best of both worlds. We established long-term relationships with overseas suppliers, many of whom remain close friends and partners to this day.

At the same time, we retained our local manufacturing facility, predicting a time would come when the wind shifted and Made in Australia would one day be more than just a sticker and people would actively seek our locally made product.

When the global pandemic upended long-standing patterns of global trade and international relations, we began a sustained program of investment in our local manufacturing capabilities, building a state-of-the-art machine shop to fabricate our advanced luminaries from raw materials through to finished product..

As part of this investment, we recently added a fully integrated CNC machine shop, our own powder coating line, surface finishing line, and much more. Additive manufacturing also plays a growing role in the many aspects of product development and production.

During this expansion, we have brought in more team members with many more planned over the next few years as we extend our capabilities and provide a growing platform for our customers to achieve their vision.

Sustainability Plan

Net Zero

Building a sustainable future for ourselves and the planet involves taking care of our environment and attempting to minimise our demand on the ecosystem services that the earth provides (for free).

This includes reducing energy consumption, selecting renewable energy over fossil fuels, eliminating single-use plastics and landfill generation as well as a myriad of other measures that together add up and make a difference.

Energy use

At the Aqualux factory and offices, 100% of our electricity comes from renewable sources. This costs us more than the standard electricity rate, however, we believe it is important to take whatever action we can to help foster a truly renewable and sustainable future, and choosing to buy renewable energy is one of the easiest ways to do this.

Singe-use plastics

Several years ago we decided we were going to try and eliminate all plastics in our packaging supply chain and shipment operations. This meant educating both our overseas suppliers as well as investing in paper-based shipping equipment and biodegradable (home compostable) shipping satchels.

We no longer use plastic packing tape, our bubble wrap is 100% plant-derived and one of our last uses of plastic (pallet wrapping) is about to move to an Australian-made bio alternative.

Production processes

With the introduction of our new powder coating line also comes a pre-treatment process that involves several tanks to clean, prepare and protect raw luminaire bodies prior to coating.

We have invested in a fully closed-loop ion-exchange system that will effectively filter the system wastewater, refreshing the rinse tanks to near-total purity.

Factory lighting

Being an integrated lighting design and manufacturing company, it only makes sense that our production floor lighting would be energy efficient.

However, we went one step further when recently refitting our factory and designed ourselves a custom linear lighting system that features ultra-low glare (UGR < 17) optics and the latest generation of CREE mid-power LEDs.

By ensuring the light is delivered where we need it (at the production workbench level) and stray light and glare minimised, even greater efficiencies are achieved.

Architectural RGBW Lighting

Architectural and Commercial Lighting

Dynamic illumination of exterior facades and features is a great way to highlight many different types of buildings, artworks and installations.

Aqualux provides a full suite of products and project support from concept development to systems integration, maintenance and programming.

Integrating our own lighting fixtures with world-class control technology, Aqualux can provide energy efficient, colour changing lighting solutions that can be used to promote events, recognise charities and sporting team achievements as well as add more visual interest to a building or feature.

Lumena PRO Fixtures

A full range of commercial grade fixtures to illuminate many types of projects from small, high-end residential to large public space and hospitality venues.

- AQL-180/157/158/980/985 RGBW High Powered Luminaires
- AQS-500/510 Neon Flex
- Underwater RGBW Lights

Services

- System design & integration
- Circuit design
- Programming
- Maintenance

Control Systems

Wide range of control system products and integration services to cover many scenarios, including remote, off-site control.

- Madrix
- Nicolaudie
- Enttec
- L-TECH
- Casambi
- DALI
- CBUS
- Dynalight
- Integration with RTI, AMX, Crestron, Control 4

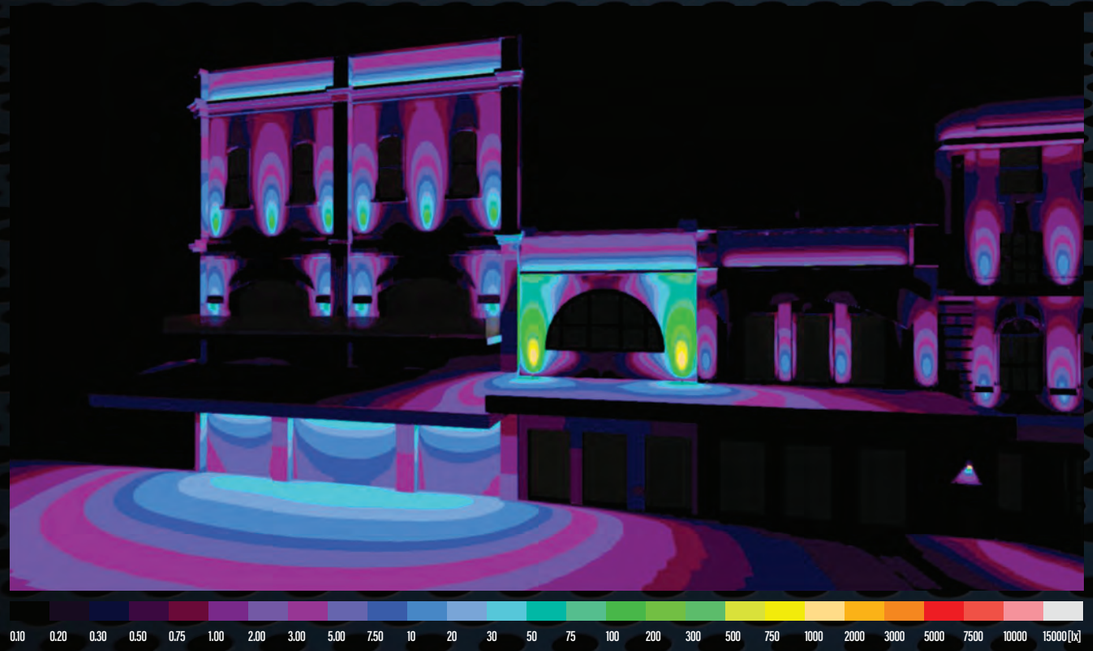
Photometric Planning & Design

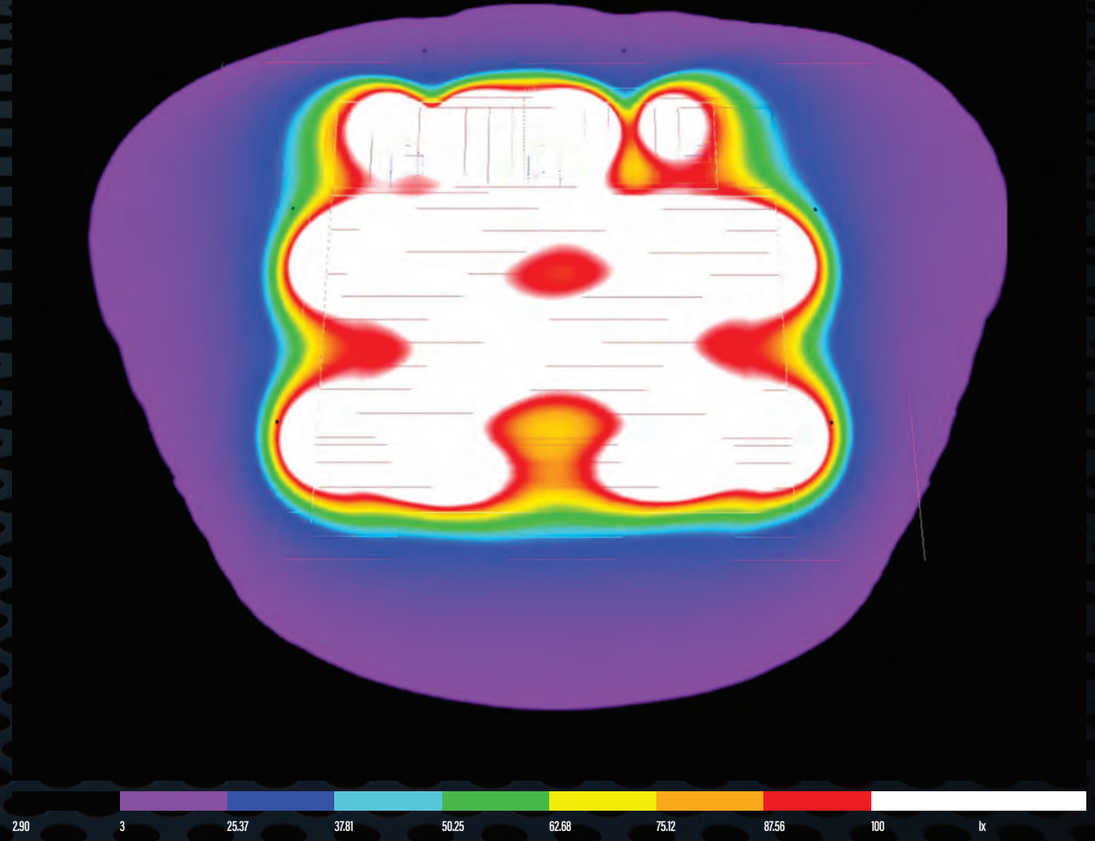
Aqualux provides free photometric planning services for projects utilising our lighting products.

Simulations to evaluate minimum and average horizontal illuminance, uniformity, glare and light spill and pollution are all included.

Designed to meet various Australian standards, including AS1158 for Roadways, Carparks and Pedestrian access and AS2560 for various sporting fields and activities.

Accurate simulations can be essential in providing collateral support for a project including council approval, customer signoff and stake-holder engagement.





What makes an Icon?

At the base of each product page are a series of icons. The icons are a quick reference guide to learn relevant product info at a glance.

Following is the complete set of icons with their definitions and descriptions.

Lumen Maintenance 80
The LM-80 standard is the IESNA approved method for determing lumen maintenance of LED light sources, e.g. how quickly the light output of an LED source degrades over time. It deals with actual measurements only.

Luminaire Report
The LM-79 test report provides details about the performance of a total luminaire package, including wall-to-lumen efficacy, luminous flux, luminous intensity distribution and CCT / CRI details.

Ingress Protection 20
Vertically dripping water shall have no harmful effect when the enclosure is tilted at an angle of 15° from its normal position. A total of four positions are tested within two axes.

Ingress Protection 65
Water projected by a nozzle (6.3 mm (0.25 in)) against enclosure from any direction shall have no harmful effects.

Ingress Protection 66
Water projected in powerful jets (12.5 mm (0.49 in)) against the enclosure from any direction shall have no harmful effects.

Ingress Protection 67
Ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 meter (3 ft 3 in) of submersion).

Ingress Protection 68
The equipment is suitable for continuous immersion in water under conditions which shall be specified by the manufacturer. It can mean that water can enter but only in such a manner that it produces no harmful effects.

2 Year Warranty
In addition to the statutory warranty of 1 Year. This is on the condition that Aqualux lighting products are fit-for-purpose and installed professionally or by similarly qualified persons and that all guidelines and requirements are followed.

3 Year Warranty
In addition to the statutory warranty of 1 Year. This is on the condition that Aqualux lighting products are fit-for-purpose and installed professionally or by similarly qualified persons and that all guidelines and requirements are followed.

5 Year Warranty
In addition to the statutory warranty of 1 Year. This is on the condition that Aqualux lighting products are fit-for-purpose and installed professionally or by similarly qualified persons and that all guidelines and requirements are followed.

10 Year Warranty
In addition to the statutory warranty of 1 Year. This is on the condition that Aqualux lighting products are fit-for-purpose and installed professionally or by similarly qualified persons and that all guidelines and requirements are followed.

3 Step MacAdam
The colour point binning specifies the range of colours within which all LEDs are first supplied. 3 Step MacAdam, it is not possible to detected colour nuances between individual luminaires.

5 Step MacAdam
The colour point binning specifies the range of colours within which all LEDs are first supplied.

Salt Water Resistant
Offers resistance to corrosion and degradation in salt water environments.

Solvent Resistant
Offers resistance to common domestic solvents and cleaning agents. Not including industrial strength cleaners, acids or alkalines.

Ultra Violet Protection
Offers protection from degradation and fading due to UV exposure in sunlight.

Vertical Bending Direction
Only bends in the vertical bending direction. Twisting or bending horizontally will damage to Neon Flex. Each Neon Flex Product has a safe minium bend radius.

Horizontal Bending Direction
Only bends in the horizontal bending direction. Twisting or bending vertically will damage to Neon Flex. Each Neon Flex Product has a safe minium bend radius.

Warning
A statement or piece of information that tells people that there might be a danger or a problem in the future.

Direct Current 24 Volts
Requires 24V DC constant voltage for correct operation.

Taking the limelight

Aqualux is introducing three new fittings: The AQL-122 path light, AQL-880 ceiling light and the AQL-985 compact projector. These new luminaires complement our existing range and are a direct result of customer feedback as well as Aqualux innovation.

Path Light

AQL-122

The AQL-122 is an elegant pathlight that can blend perfectly into both modern and traditional settings.

Offering offset, diffuse light projection suitable for path and wayfinding applications, the AQL-122 if fully machined in our Sydney facility and available in our standard powder coat options as well as custom finishes to suit multiple project requirements.

AQL-122-A1
(Silver Reign)

AQL-122-A2
(Black Ace)

AQL-122-A3
(Medium Bronze)

AQL-122-A4
(Venerable Silver)

AQL-122-A8
(Flat White)

Ceiling light

AQL-880

Adding to our LumenaPro Range, the AQL-880 Ceiling Light is a configurable down light with applications ranging from domestic outdoor use to commercial and architectural interiors.

CNC Machined in Aluminium and finished in a selection of Dulux Powder Coat options, the AQL-880 is perfect for exteriors that need an IP-rated downlight solution and features multiple configuration options including 10/20W outputs, 2700K - 6500K CCT, RGBW, Integrated DALI or DMX.

AQL-880-A1
(Silver Reign)

AQL-880-A2
(Black Ace)

AQL-880-A3
(Medium Bronze)

AQL-880-A4
(Venerable Silver)

AQL-880-A8
(Flat White)

Compact Projector

AQL-985

The AQL-985 is a sub-compact architectural projector with a multitude of configurable options and features.

With a range of advanced technologies including the latest generation of ultra-high efficacy LEDs and a multi-channel LED Driver configuration, the AQL-985 combines extreme output efficiency and redundant design for critical environments where failure is not an option.

AQL-880-A1
(Silver Reign)

AQL-880-A2
(Black Ace)

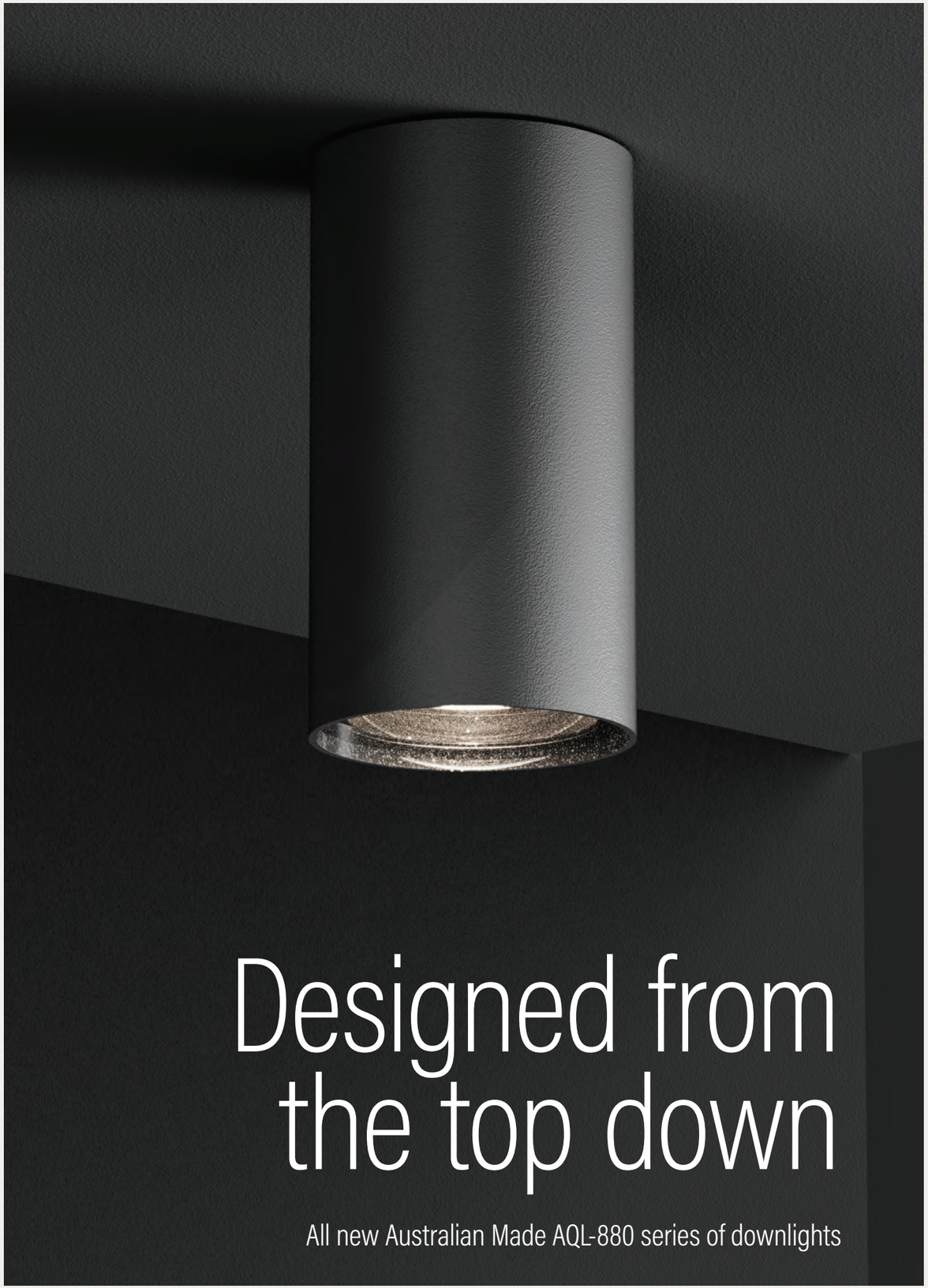
AQL-880-A3
(Medium Bronze)

AQL-880-A4
(Venerable Silver)

AQL-880-A8
(Flat White)

The new Lumena Pro range for Architectural and Commercial lighting designers.

High lumen output, durable weather resistance and a multitude of options.



Designed from the top down

All new Australian Made AQL-880 series of downlights

LumenaPro at a glance

AQL-157

AQL-158

AQL-180

AQL-181

AQL-860

AQL-880

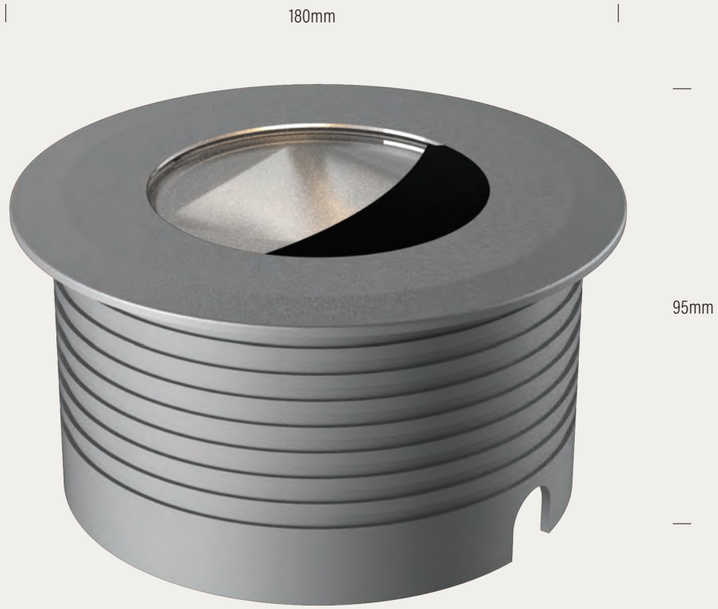
AQL-980

AQL-985

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

Recessed wall washer

AQL-157



TECHNICAL

Product Code AQL-157 **Product Family** LumenaPro **Mounting** Recessed
Construction Body: CNC Machined AL6061 / Dressring: AL6061 / Brass (Opt) **Electrical** 24V DC
Watts White: 30W **Lumens White:** 2900lm
LED / L70 Wall Washer: CREE CXB2530 / 72,600 hrs +
CRI (White) 80 (Std) / 90 (Opt) **IP Rating** IP67 **Warranty** Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC Dimming: 3-Wire PWM	30W / 2900lm / 3000K	Wall washer	AqualuxPLUS QuickConnect
Silver Reign		30W / 2900lm / 2700K		
Black Ace		30W / 2900lm / 4000K		
White		30W / 2900lm / 5700K		
Venerable Silver				

5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

Recessed uplight

AQL-158

TECHNICAL

Product Code AQL-158 **Product Family** LumenaPro **Mounting** Recessed
Construction Body: CNC Machined AL6061 / Dressring: AL6061 / Brass (Opt) **Electrical** 24V DC / RGBW: 24V DC
Watts White: 30W / RGBW: 30W / Single Colour: 21W
LED / L70 CREE XHP50 / 72,600 hrs + / RGBW: 10W / 50,000 hrs @ 100%
CRI (White) 80 (Std) / 90 (Opt) **IP Rating** IP67 **Warranty** Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	30W / 1665lm / RGB+3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign		21W / 480lm / Blue	Medium (25°)	
Black Ace	24V DC Dimming: 3-Wire PWM	21W / 840lm / Red	Wide (35°)	
White		21W / 1260lm / Green		
Venerable Silver		21W / 960lm / Amber		
		30W / 2400lm / 3000K		
		30W / 2400lm / 2700K		
		30W / 2400lm / 4000K		
		30W / 2400lm / 5700K		

5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

AQL-180

TECHNICAL

Product Code AQL-180 **Product Family** LumenaPro **Mounting** U-Bracket / Screws
Construction CNC Unibody Machined AL6061 / Bracket SS304 **Electrical** 3000K: 24V AC/DC / RGBW: 24V DC
Watts 3000K: 25W CREE XHP70 / RGBW: 25W TX5050 **Lumens** 3000K: 2000lm / RGB+6500K: 240 / 380 / 2.8W / 630
LED / L70 White: CREE XHP70 / 72,600 hrs + / RGBW: 20,000 hrs @ 100% **CRI (White)** 80 (Std) / 90 (Opt) **IP Rating** IP67
Warranty Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	25W / 2500lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC Dimming: PWM 10V Dimming	25W / 2500lm / 4000K	Medium (25°)	
Black Ace		20W / 1090lm / 20W RGB+6500K	Wide (35°)	
White				
Venerable Silver				

IES 5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

AQL-181

TECHNICAL

Product Code AQL-181 **Product Family** LumenaPro **Mounting** Spike
Construction CNC Unibody Machined AL6061 / Bracket SS304 **Electrical** 3000K: 24V AC/DC / RGBW: 24V DC
Watts 3000K: 25W CREE XHP70 / RGBW: 25W TX5050 **Lumens** 3000K: 2000lm / RGB+6500K: 240 / 380 / 2.8W / 630
LED / L70 White: CREE XHP70 / 72,600 hrs + / RGBW: 20,000 hrs @ 100% **CRI (White)** 80 (Std) / 90 (Opt) **IP Rating** IP67
Warranty Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	25W / 2500lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC Dimming: PWM 10V Dimming	25W / 2500lm / 4000K	Medium (25°)	
Black Ace		20W / 1090lm / 20W RGB+6500K	Wide (35°)	
White				
Venerable Silver				

IES 5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

AQL-860

TECHNICAL

Product Code AQL-860 **Product Family** LumenaPro **Function** Ceiling **Construction** CNC Machined Aluminium
Electrical 24V DC **Watts** 6W / 10W RGBW **Lumens** 600lm / 500lm RGBW **LED / L70** 70,000 hrs + **CRI** 90+
LED CREE CXB1512 **IP Rating** IP67 **Warranty** Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	6W / 600lm / 3000K	Narrow (12)	AqualuxPLUS QuickConnect
Silver Reign		6W / 600lm / 4000K	Medium (35)	
Black Ace	24V DC Dimming: 10V PWM	10W / 500lm / RGB+3000K	Wide (55)	
White				
Venerable Silver				

IES 5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

AQL-880

TECHNICAL

Product Code AQL-880 **Product Family** LumenaPro **Function** Ceiling **Construction** CNC Machined Aluminium
Electrical 24V DC / 240V AC **Watts** 10W / 20W **Lumens** 500lm / 1800lm **LED / L70** 70,000 hrs + **CRI** 90+
LED CREE CXB1520 **IP Rating** IP67 **Warranty** Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	10W / 900lm / 3000K	Narrow (12)	AqualuxPLUS QuickConnect
Silver Reign		10W / 900lm / 4000K	Medium (35)	
Black Ace	240V AC DALI Dimming: 4CH Low-Side PWM	20W / 1800lm / 3000K	Wide (55)	
White		20W / 1800lm / 4000K		
Venerable Silver	24V DC Dimming: 10V PWM	10W / 500lm / RGB+3000K		

IES 5Y IP67 LM80

Specifications subject to change, always check website for the latest details.

AQL-980

TECHNICAL

Product Code AQL-980 **Product Family** LumenaPro **Mounting** SS304 Bracket / Twin 10mm Holes
Construction Body: CNC Machined AL6061 / Bracket: SS304 / Powder Coated(Opt) **Electrical** White: 24V DC / RGBW: 24V DC
Watts White: 50W / RGBW: 50W **Lumens** RGBW: 700 / 1150 / 225 / 1300 / 3000K: 4000
LED / L70 RGBW: 10W / 50,000 hrs @ 100% / WHITE: CREE XHP50.2 / 72,600 hrs **+ CRI (White)** 80 (Std) / 90 (Opt) **IP Rating** IP67
Warranty Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	50W / 2775lm / RGB+3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC Dimming: 3-Wire PWM	50W / 4000lm / 3000K	Medium (25°)	
Black Ace		50W / 5350lm / 5700K	Wide (36°)	
White				
Venerable Silver				

IES 5Y IP67 LM80

AQL-985

TECHNICAL

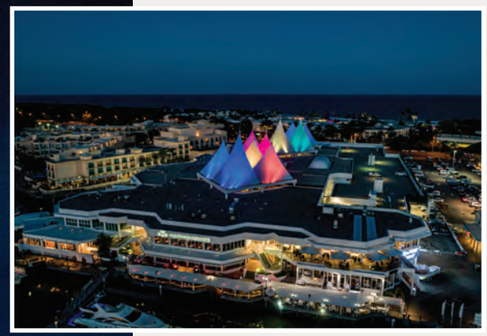
Product Code AQL-985 **Product Family** LumenaPro **Function** Projector **Construction** CNC Cast Aluminium
Electrical 24V DC **Watts** 50W **Lumens** 5500lm **LED** CREE XP Family **L70** 70,000 hrs + **CRI** 80 (Std) / 90+
IP Rating IP67 **Warranty** Aqualux 5-year

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC RGBW Dimming: 4CH Low-Side PWM	50W / 2000lm / RGB+3000K	Medium (30°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC Dimming: 10V PWM	50W / 5000lm / 3000K	Wide (65°)	
Black Ace		50W / 5500lm / 4000K	Extra Wide (90°)	
White				
Venerable Silver				

IES 5Y IP67 LM80

Marina Mirage

GOLD COAST - QLD



Aqualux was involved from the concept development stage through to the design and installation process, along with Alpha LED and Wolfie IT. The project brief was to illuminate the sails of the landmark Marina Mirage shopping center and utilise the structure as a canvas for RGB illumination according to various events and other lighting requirements.

PARTNERS
Alpha LED and Wolfie IT

LOCATION
Marina Mirage QLD

PROJECT BRIEF
27 x AQL-912
27 x AQL-913

Designed to provide the ultimate in design freedom and quality of workmanship.

Modern landscape design demands modern lighting solutions.

Lumena at a glance

AQL-105

AQL-108

AQL-115

AQL-116

AQL-120

AQL-121

AQL-122

AQL-123

AQL-130

AQL-131

AQL-132

AQL-135

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AQL-151

AQL-152

AQL-155

AQL-163

AQL-164

AQL-165

AQL-166

AQL-175

AQL-176

AQL-195

AQL-220

AQL-522

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQL-105

TECHNICAL

Product Code AQL-105 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700K		
Venerable Silver		10W / 555lm / RGB+3000K		
		7W / 160lm / Blue		
		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-108

TECHNICAL

Product Code AQL-108 **Product Family** Lumena **Function** Suspended Pendant Light
Construction CNC Machined / Anodised 6061 **Electrical** SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67
Warranty 5 Year Aqualux Warranty **Additional** 2mm Stainless Steel Suspension Wire

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: No	4W / 300lm / 3000K	Narrow (10°)	1M Aqualux PTFE Cable
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700K		
Venerable Silver		10W / 555lm / RGB+3000K		
		7W / 160lm / Blue		
		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		

IES IP67 LM80 3Y

Specifications subject to change, always check website for the latest details.

Spot Light

AQL-115

TECHNICAL

Product Code AQL-115 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700KA		
Venerable Silver		10W / 555lm / RGB+3000K		
		7W / 160lm / Blue		
		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

Micro Spot Light

AQL-116

TECHNICAL

Product Code AQL-116 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	2W / 150lm / 3000K	Narrow (15°)	AqualuxPLUS QuickConnect
Silver Reign		2W / 150lm / 2700K	Medium (30°)	
Black Ace		2W / 150lm / 5700K	Wide (50°)	
White		2W / 80lm / Red	Flood (70°)	
Venerable Silver		2W / 80lm / Green		
		2W / 80lm / Blue		

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-120

TECHNICAL

Product Code AQL-120 **Product Family** Lumena **Function** Fixed Pathlight **Construction** Aluminium + Powder Coat
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty 5** Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Diffused (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K		
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K		
White		7W / 600lm / 5700K		
Venerable Silver		10W / 555lm / RGB+3000K		
		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

Specifications subject to change, always check website for the latest details.

AQL-121

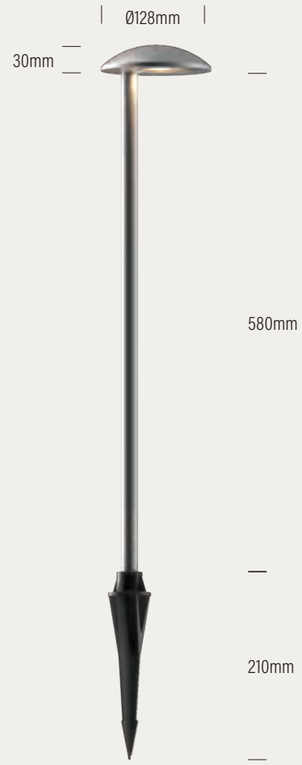
TECHNICAL

Product Code AQL-121 **Product Family** Lumena **Function** Fixed Pathlight **Construction** Aluminium + Powder Coat
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty 5** Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Diffused (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K		
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K		
White		7W / 600lm / 5700K		
Venerable Silver		10W / 555lm / RGB+3000K		
		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

Specifications subject to change, always check website for the latest details.

AQL-122



TECHNICAL

Product Code AQL-122 **Product Family** Lumena **Function** Fixed Pathlight **Construction** Aluminium + Powder Coat
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty 5** Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Diffused (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	7W / 550lm / 3000K		
Black Ace		4W / 320lm / 5700K		
White		7W / 600lm / 5700K		
Venerable Silver		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

IP65 LM80 2Y 3S

Specifications subject to change, always check website for the latest details.

AQL-123

TECHNICAL

Product Code AQL-123 **Product Family** Lumena **Function** Fixed Pathlight **Construction** Aluminium + Powder Coat
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty 5** Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Diffused (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	7W / 550lm / 3000K		
Black Ace		4W / 320lm / 5700K		
White		7W / 600lm / 5700K		
Venerable Silver		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

IP65 LM80 2Y 3S

Specifications subject to change, always check website for the latest details.

AQL-130

TECHNICAL

Product Code AQL-130 (Spike) **Product Family** Lumena **Function** Bollard **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze Silver Reign Black Ace White Venerable Silver	12~24V AC / 24V DC Dimming: 3-Wire PWM 24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 300lm / 3000K	Diffuse (Clear)	AqualuxPLUS QuickConnect

IES IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-131

TECHNICAL

Product Code AQL-131 (Surface Mount) **Product Family** Lumena **Function** Bollard **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V D**C IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze Silver Reign Black Ace White Venerable Silver	12~24V AC / 24V DC Dimming: 3-Wire PWM 24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 300lm / 3000K	Diffuse (Clear)	AqualuxPLUS QuickConnect

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-132

TECHNICAL

Product Code AQL-132 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined Aluminium
Electrical 24V DC **Power** 20W **Lumens** 2000lm **LED** CREE CXB1520 **L70** 70,000hrs + **CRI** 90+
IP Rating IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC Dimming: 10V PWM	20W / 2000lm / 3000K	Narrow (12°)	AqualuxPLUS QuickConnect
Silver Reign		20W / 2000lm / 4000K	Medium (35°)	
Black Ace			Wide (55°)	
White				
Venerable Silver				

Specifications subject to change, always check website for the latest details.

AQL-135

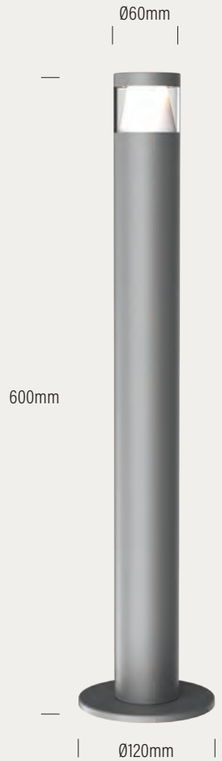
TECHNICAL

Product Code AQL-135 **Product Family** Lumena **Function** Bollard **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12–24V AC / 24V DC Dimming: 3-Wire PWM	4W / 3000K	Diffuse (Clear)	AqualuxPLUS QuickConnect
Silver Reign	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side			
Black Ace				
White				
Venerable Silver				

Specifications subject to change, always check website for the latest details.

AQL-136



TECHNICAL

Product Code AQL-136 **Product Family** Lumena **Function** Bollard **Construction** CNC Machined / Anodised 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 3000K	Diffuse (Clear)	AqualuxPLUS QuickConnect
Silver Reign	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side			
Black Ace				
White				
Venerable Silver				

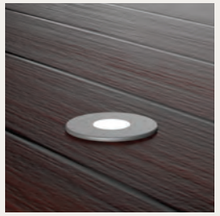
IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-151

TECHNICAL

Product Code AQL-151 **Product Family** Lumena **Function** Recessed Upight **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty



Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	2W / 150lm / 3000K	Narrow (15°)	AqualuxPLUS QuickConnect
Silver Reign		2W / 150lm / 2700K	Medium (30°)	
Black Ace		2W / 150lm / 5700K	Wide (50°)	
White		2W / 80lm / Red	Flood (70°)	
Venerable Silver		2W / 80lm / Green		
		2W / 80lm / Blue		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-152

TECHNICAL

Product Code AQL-152 **Product Family** Lumena **Function** Recessed Upight **Construction** CNC Machined 6061 / Solid Brass
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	2W / 150lm / 3000K	Narrow (15°)	AqualuxPLUS QuickConnect
Silver Reign		2W / 150lm / 2700K	Medium (30°)	
Black Ace		2W / 150lm / 5700K	Wide (50°)	
White		2W / 80lm / Red	Flood (70°)	
Natural Brass		2W / 80lm / Green		
Aged Brass		2W / 80lm / Blue		
Venerable Silver				

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-155

TECHNICAL

Product Code AQL-155 **Product Family** Lumena **Function** Recessed **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign		7W / 550lm / 3000K	Medium (25°)	
Black Ace		4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700K	Wall Washer / Cut off	
Venerable Silver		10W / 555lm / RGB+3000K		
		7W / 160lm / Blue		
		7W / 280lm / Red		
		7W / 420lm / Green m		
		7W / 320lm / Amber		
		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

IES IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-163

TECHNICAL

Product Code AQL-163 **Product Family** Lumena **Function** Grazing **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	1W / 100lm / 3000K	Diffuse (Frosted)	AqualuxPLUS QuickConnect
Silver Reign		1W / 100lm / 5700K	Diffuse (Clear)	
Black Ace	24V DC RGBW Dimming: 4CH Low-Side PWM	1W / 70lm / Red		
White		1W / 40lm / Blue		
Venerable Silver		1W / 100lm / Green		
		1W / 70lm / Amber		
		5W / 235lm / RGB+3000K		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-164

TECHNICAL

Product Code AQL-164 **Product Family** Lumena **Function** Grazing **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	1W / 100lm / 3000K	Diffuse (Frosted)	AqualuxPLUS QuickConnect
Silver Reign		1W / 100lm / 5700K	Diffuse (Clear)	
Black Ace	24V DC RGBW Dimming: 4CH Low-Side PWM	1W / 70lm / Red		
White		1W / 40lm / Blue		
Venerable Silver		1W / 100lm / Green		
		1W / 70lm / Amber		
		5W / 235lm / RGB+3000K		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-165

TECHNICAL

Product Code AQL-165 **Product Family** Lumena **Function** Grazing **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	2W / 200lm / 3000K	Diffuse (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	2W / 200lm / 5700K	Diffuse (Clear)	
Black Ace		2W / 140lm / Red		
White		2W / 80lm / Blue		
Venerable Silver		2W / 200lm / Green		
		2W / 140lm / Amber		
		10W / 470lm / RGB+3000K		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-166

TECHNICAL

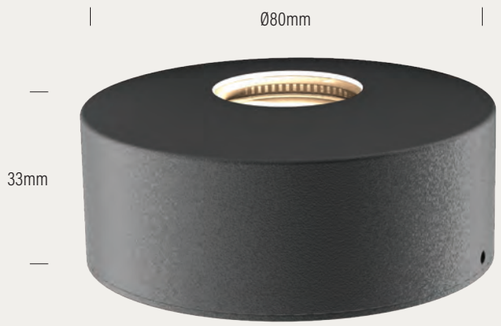
Product Code AQL-166 **Product Family** Lumena **Function** Grazing **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 400lm / 3000K	Diffuse (Frosted)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	4W / 400lm / 5700K	Diffuse (Clear)	
Black Ace		4W / 280lm / Red		
White		4W / 160lm / Blue		
Venerable Silver		4W / 400lm / Green		
		4W / 280lm / Amber		
		20W / 940lm / RGB+3000K		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-175



TECHNICAL

Product Code AQL-175 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined / 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign		4W / 320lm / 5700K	Medium (25°)	
Black Ace			Wide (40°)	
White				
Venerable Silver				

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-176

TECHNICAL

Product Code AQL-176 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined / 6061
Electrical 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	24V DC Dimming: No	11W / 1200lm / 3000K	Diffuse Frosted (DF)	AqualuxPLUS QuickConnect
Silver Reign		11W / 1300lm / 5700K		
Black Ace				
White				
Venerable Silver				

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-195

TECHNICAL

Product Code AQL-195 **Product Family** Lumena **Function** Recessed **Construction** CNC Machined 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: No	1W / 100lm / 3000K	Diffuse (Frosted)	Aqualux Cable (1m Std)
Silver Reign		1W / 100lm / 5700K A		
Black Ace		1W / 70lm / Red		
White		1W / 40lm / Blue		
Venerable Silver		1W / 100lm / Green		
		1W / 70lm / Amber		

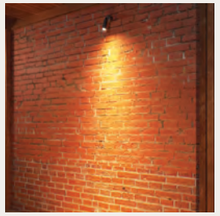
IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-220

TECHNICAL

Product Code AQL-220 **Product Family** Lumena **Function** Spot Light **Construction** CNC Machined 6061
Electrical SELV 12 ~ 24V AC / 24V DC **IP Rating** IP67 **Warranty** 5 Year Aqualux Warranty **Additional** RGBW Option Available

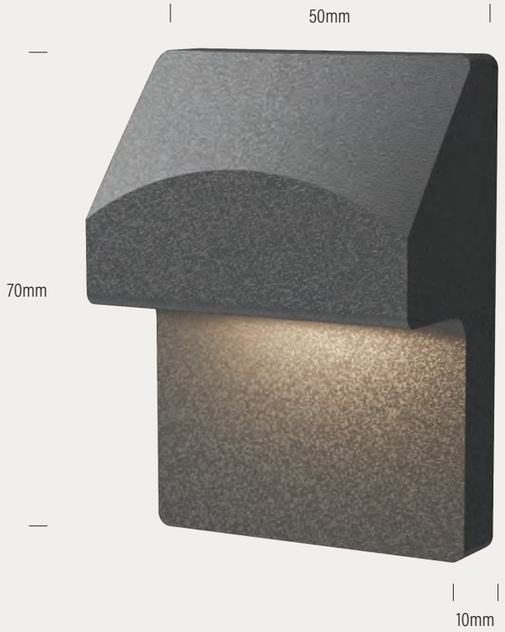


Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: No	4W / 300lm / 3000K	Narrow (10°)	AqualuxPLUS QuickConnect
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace		4W / 320lm / 5700K	Wide (40°)	
White	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	7W / 600lm / 5700K		
Venerable Silver		10W / 555lm / RGB+3000K		
		7W / 160lm / Blue		
		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-522



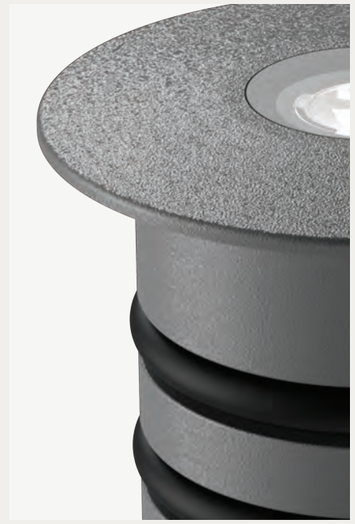
TECHNICAL

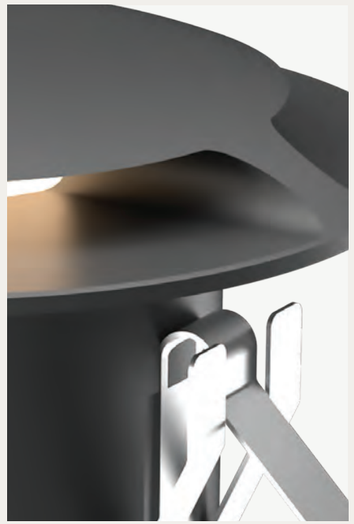
Product Code AQL-522 **Product Family** Lumena **Function** Wall Light **Construction** CNC Machined Aluminium
Electrical 24V DC **Power** 2W **Lumens** 150lm **LED** Wurth Micro LED **L70** 50,000hrs + **CRI** 80+
IP Rating IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze Silver Reign Black Ace White Venerable Silver	12~24V AC / 24V DC Dimming: No	2W / 150lm / 3000K	Diffuse (Clear)	AqualuxPLUS QuickConnect

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.





Backyard Bliss

BAY STREET - VIC

The lengthened driveway leads you to several luminous steps using AQS-400 guiding you to the Palm lined Colonial Beach Estate. The inviting tropical leading lines are created using AQL-132 Spike Uplight and AQL-400 Spike Spotlights. The outdoor entertaining log fireplace is uplit with AQL-155's with an Asymmetric Beam Angle to minimise light flare and direct light where it is needed adding to the already elegant hidden sanctuary.

PARTNERS
Lighting Options VIC

LOCATION
Bay Street, VIC

PROJECT BRIEF
AQL-155
AQL-400
AQL-132

Project by Lighting Options Victoria

Created from solid cast Brass with durable, long-lasting coatings.

Timeless luminaire design for today's and tomorrow's landscapes.

Our new powder coating facility

For our Australian Made Products

Phoenix at a glance

AQL-510

AQL-520

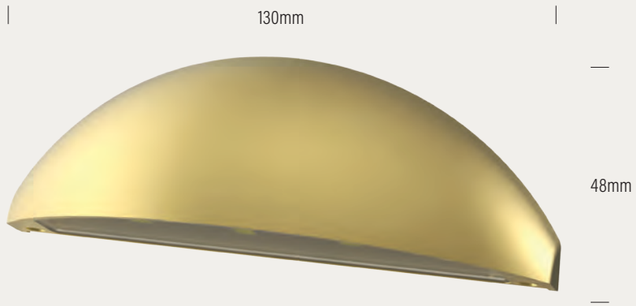
AQL-530

AQL-540

AQL-565

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQL-510



TECHNICAL

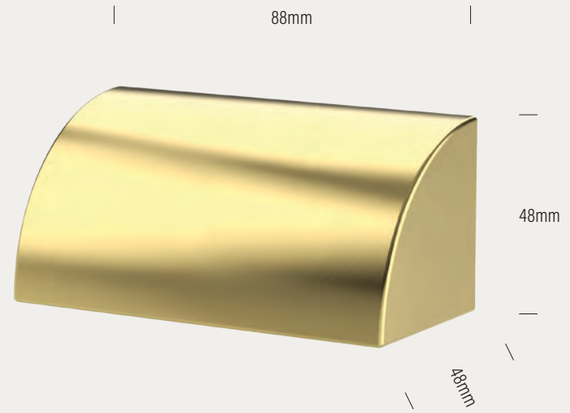
Product Code AQL-510 **Product Family** Phoenix **Function** Wall Mounted **Construction** Solid Cast Brass
Electrical SELV 12 ~ 24V AC / DC **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 400lm / 3000K	Diffuse (Frosted)	Aqualux Cable (1M Std)
Silver Reign		4W / 400lm / 5700K		
Black Ace				
White				
Natural Brass				
Copper				
Venerable Silver				

IES IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-520



TECHNICAL

Product Code AQL-520 **Product Family** Phoenix **Mounting** Wall Mounted **Construction** Solid Cast Brass
Electrical SELV 12 ~ 24V AC / DC **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 400lm / 3000K	Diffuse (Frosted)	Aqualux Cable (1M Std)
Silver Reign		4W / 400lm / 5700K		
Black Ace				
White				
Natural Brass				
Copper				
Venerable Silver				

IES IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-530

TECHNICAL

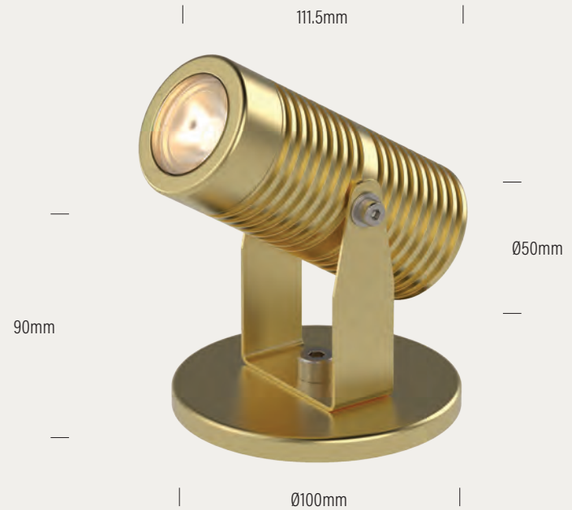
Product Code AQL-530 **Product Family** Phoenix **Function** Recessed **Construction** Solid CN C Brass
Electrical SELV 12 ~ 24V AC / DC **IP Rating** IP68 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700K	Wall Washer / Cut off	
Natural Brass		10W / 555lm / RGB+3000K		
Copper		7W / 160lm / Blue		
Venerable Silver		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		
		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

IES IP68 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-540



TECHNICAL

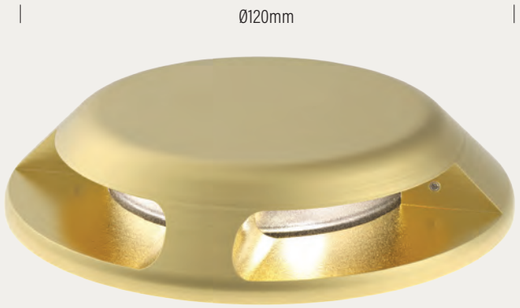
Product Code AQL-540 **Product Family** Phoenix **Function** Spot Light **Construction** Solid CNC Brass
Electrical SELV 12 ~ 24V AC / DC **IP Rating** IP68 **Warranty** 5 Year Aqualux Warranty

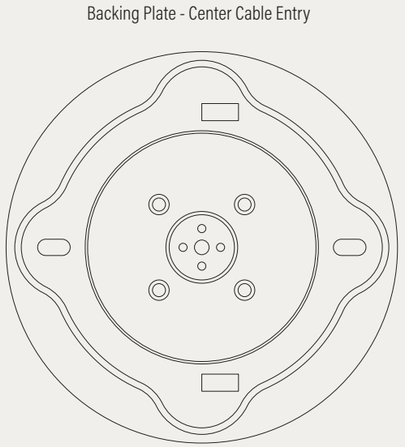
Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze	12~24V AC / 24V DC Dimming: 3-Wire PWM	4W / 300lm / 3000K	Narrow (10°)	5m Aqualux Cable
Silver Reign	24V DC RGBW Dimming: 4CH Low-Side PWM	7W / 550lm / 3000K	Medium (25°)	
Black Ace	24VAC Triac Dimmable Dimming: Yes, TRIAC Primary Side	4W / 320lm / 5700K	Wide (40°)	
White		7W / 600lm / 5700K	Diffuse (Frosted)	
Natural Brass		10W / 555lm / RGB+3000K		
Copper		7W / 160lm / Blue		
Venerable Silver		7W / 280lm / Red		
		7W / 420lm / Green		
		7W / 320lm / Amber		
		4W / 300lm / 2700K		
		7W / 550lm / 2700K		

IES IP68 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-565





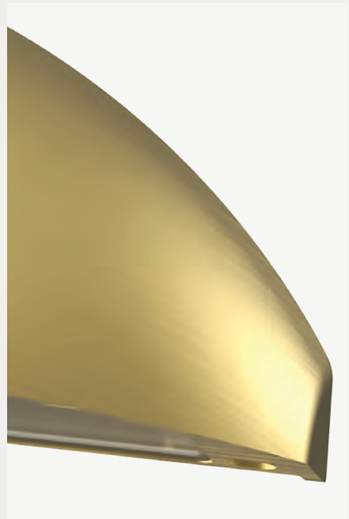
TECHNICAL

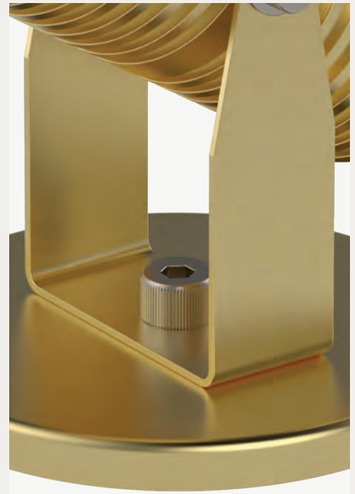
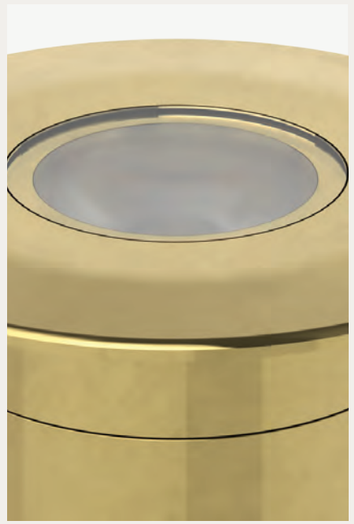
Product Code AQL-565 **Product Family** Phoenix **Function** Grazing **Construction** Solid Cast Brass **Electrical** SELV 24V DC
IP Rating IP67 **Warranty** 5 Year Aqualux Warranty **Additional** AqualuxPLUS Option

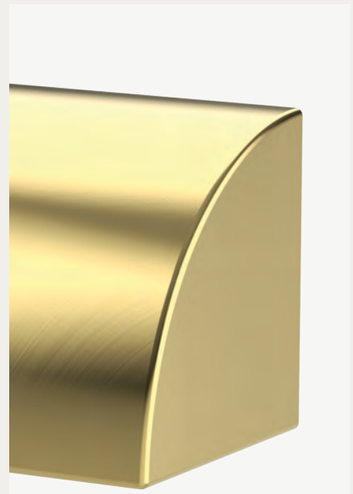
Finish	Control Gear	Light Source	Optical	Cable
Medium Bronze Silver Reign Black Ace White Natural Brass Copper Venerable Silver	24V DC Dimming: 3-Wire PWM	8W / 600lm / 3000K	Diffuse (Frosted)	AqualuxPLUS QuickConnect (1M)

IP67 LM80 5Y

Specifications subject to change, always check website for the latest details.





Ripley's 'Believe it or not' Octopus

SURFERS PARADISE - QLD

The Hydra range is constructed around the best-selling AQL-400 Spotlight.

Our largest range will give your clients the versatility to develop the perfect landscape lighting project.

Hydra at a glance

AQL-400

AQL-401

AQL-402

AQL-403

AQL-404

AQL-405

AQL-406

AQL-407

AQL-408

AQL-409

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AQL-411

AQL-412

AQL-413

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AQL-415

AQL-416

AQL-417

AQL-418

AQL-419

AQL-420

AQL-450

AQL-451

AQL-452

AQL-455

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQL-400

TECHNICAL

Product Code AQL-400 **Product Family** Hydra **Function** Spot Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-401

TECHNICAL

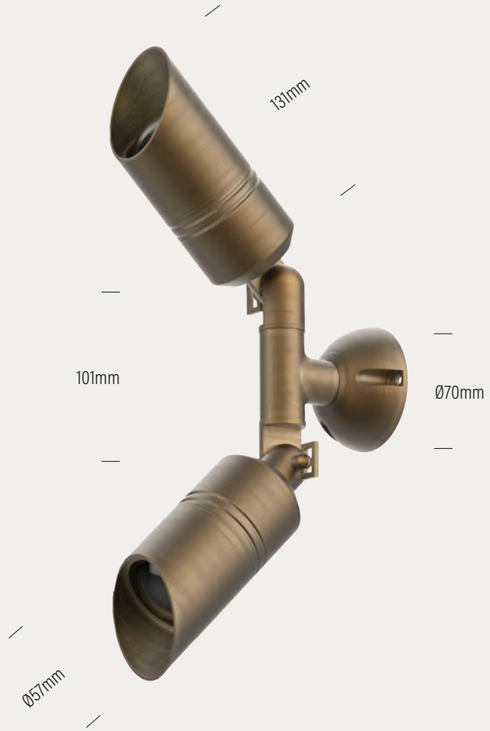
Product Code AQL-401 **Product Family** Hydra **Function** Spot Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-402



TECHNICAL

Product Code AQL-402 **Product Family** Hydra **Function** Twin Spot Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

Specifications subject to change, always check website for the latest details.

AQL-403

TECHNICAL

Product Code AQL-403 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

Specifications subject to change, always check website for the latest details.

AQL-404

TECHNICAL

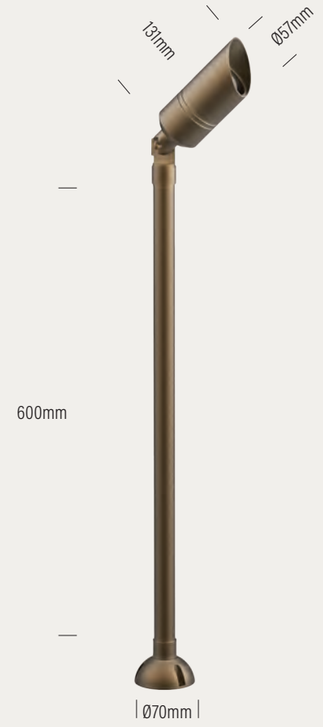
Product Code AQL-404 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-405



TECHNICAL

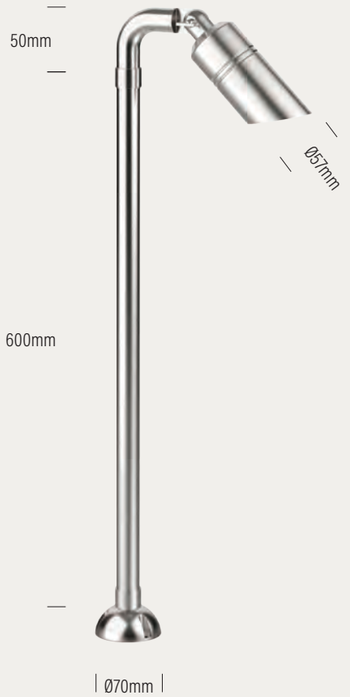
Product Code AQL-405 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-406



TECHNICAL

Product Code AQL-406 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-407

TECHNICAL

Product Code AQL-407 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-408

TECHNICAL

Product Code AQL-408 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-409

TECHNICAL

Product Code AQL-409 P**roduct Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-410

TECHNICAL

Product Code AQL-410 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

Specifications subject to change, always check website for the latest details.

AQL-411

TECHNICAL

Product Code AQL-411 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

Specifications subject to change, always check website for the latest details.

AQL-412

TECHNICAL

Product Code AQL-412 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-413

TECHNICAL

Product Code AQL-413 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-414

TECHNICAL

Product Code AQL-414 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty
Additional Use with AGL-250/550 LED Lamps

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-415

TECHNICAL

Product Code AQL-415 **Product Family** Hydra **Function** Pond Light **Construction** Solid Cast Brass
Electrical GX5.3 MR16 Lamp **IP Rating** IP68 **Warranty** 3 Year Aqualux Warranty **Additional** Extended Lead Option

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP68 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-416

TECHNICAL

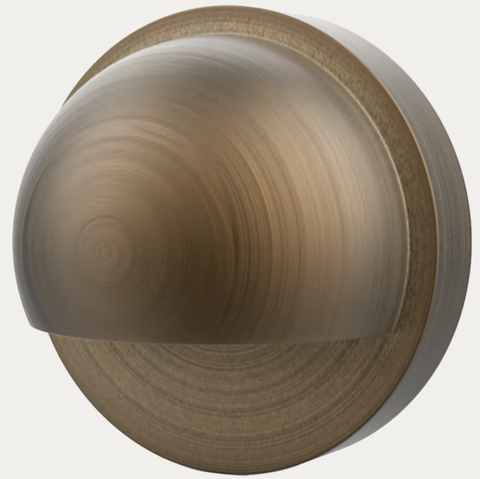
Product Code AQL-416 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast & CNC Machined Brass
Electrical 12~24V AC / 24V DC **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty

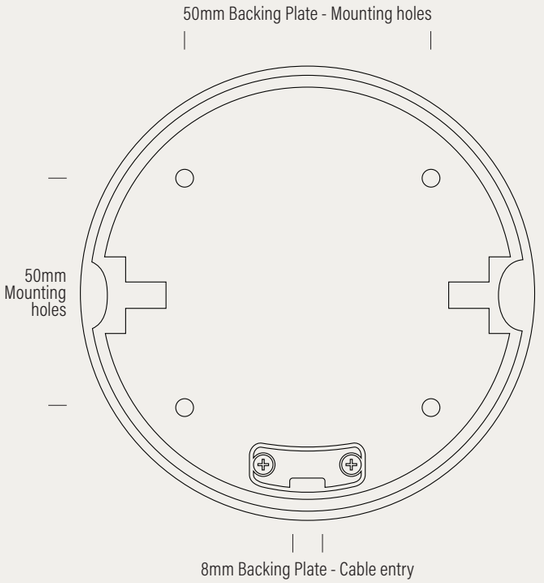
Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	12~24V AC / 24V DC Dimming: No	7W / 360lm / 3000K	Diffuse (Clear)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-417





TECHNICAL

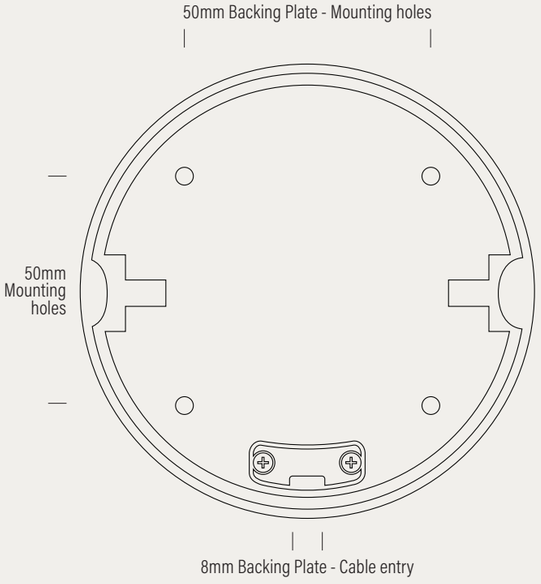
Product Code AQL-417 **Product Family** Hydra **Function** Wall Mounted **Construction** Solid Cast Brass
Electrical 12~24V AC / 24V DC / Dimming: No / 4W / 400lm / 3000K / 320mA **IP Rating** IP65

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	12~24V AC / 24V DC Dimming: No	4W / 400lm / 3000K	Diffuse (Frosted)	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-418



TECHNICAL

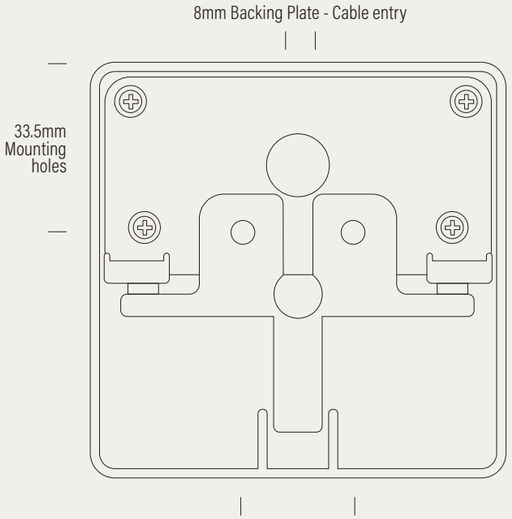
Product Code AQL-418 **Product Family** Hydra **Function** Wall Mounted **Construction** Solid Cast Brass
Electrical 12~24V AC / 24V DC **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	12~24V AC / 24V DC Dimming: No	2W / 100lm / 3000K	Diffuse (Frosted)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-419



TECHNICAL

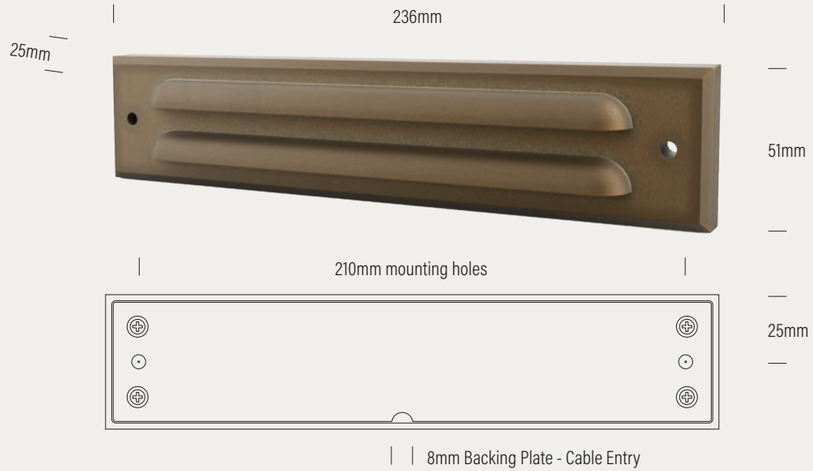
Product Code AQL-419 **Product Family** Hydra **Function** Wall Mounted **Construction** Solid Cast Brass
Electrical Integrated 12~24V DC/DC **IP Rating** IP65 **Warranty** 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	12~24V AC / 24V DC Dimming: No	2W / 100lm / 3000K	Diffuse (Clear)	Aqualux Cable (1m Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-420



TECHNICAL

Product Code AQL-420 **Product Family** Hydra **Function** Wall Mounted **Construction** Solid Cast Brass
Electrical SELV 12 / 24V AC/DC / LED IP **Rating** IP65 **Warranty** 3 year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass Brushed Chrome Matt Black	12 / 24V AC/DC Dimming: No	7W / 3000K	Diffuse (Frosted)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-450

TECHNICAL

Product Code AQL-450 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast Brass
Electrical Included 4W LED Globe **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Brushed Chrome Black Powder Coat	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-451

TECHNICAL

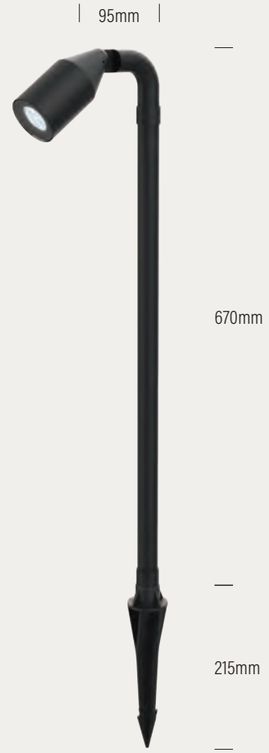
Product Code AQL-451 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast Brass
Electrical Included 2 x 4W LED Globe **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
☐ Brushed Chrome ■ Black Powder Coat	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-452



TECHNICAL

Product Code AQL-452 **Product Family** Hydra **Function** Path Light **Construction** Solid Cast Brass
Electrical Included 1 x 4W LED Globe **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
☐ Brushed Chrome ■ Black Powder Coat	Lamp Dependant	MR16 Dimming: Lamp Dependant	Lamp Dependant	Aqualux Cable (1m Std)

IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

AQL-455

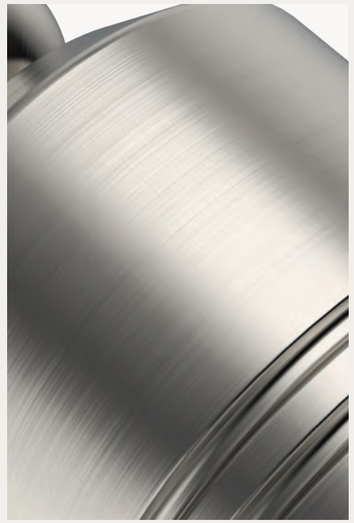
TECHNICAL

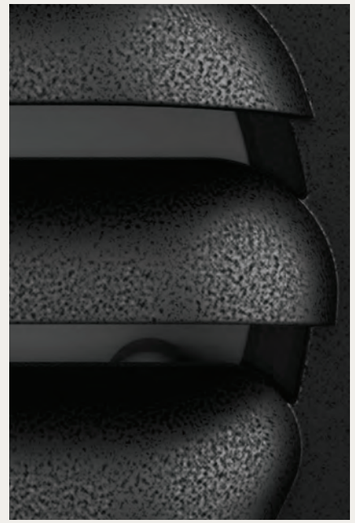
Product Code AQL-455 **Product Family** Hydra **Function** Path Light **Construction** CNC Machined Aluminium
Electrical 12 ~ 24V AC / 24V DC / 10W 24V DC ONLY **Integrated** 6W 3000K CREE LED Chip **IP Rating** IP65
Warranty 2 Year Aqualux Warranty

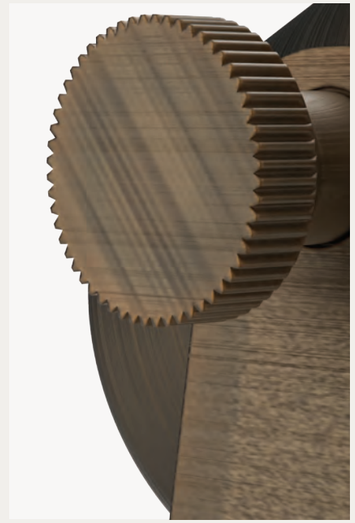
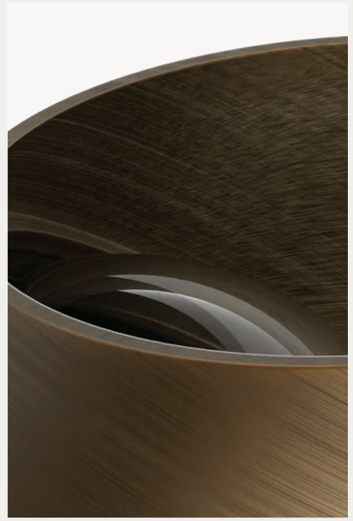
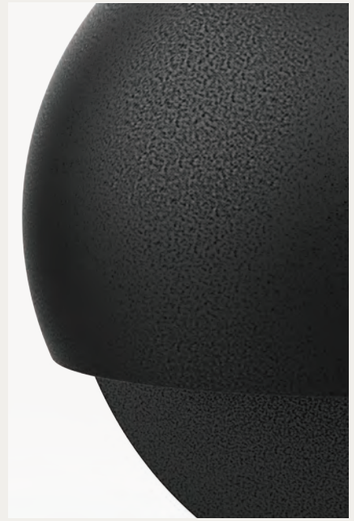
Finish	Control Gear	Light Source	Optical	Cable
Black Powder Coat	12~24V AC / 24V DC Dimming: No	3W / 200lm / 3000K 6W / 400lm / 3000K 10W / 600lm / 3000K	Wide (38°)	Aqualux Cable (1m Std)

IP65 LM80 2Y

Specifications subject to change, always check website for the latest details.

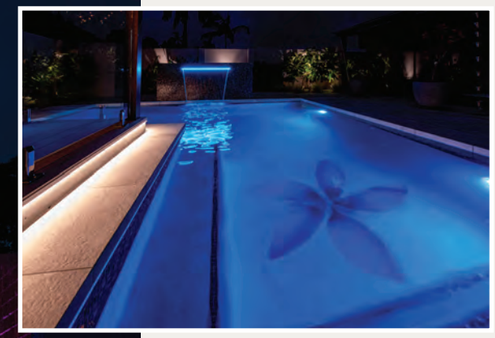




Frangipani Pool

ST MIAMI - QLD



Available in either premium electropolished 316 Stainless Steel or solid Aged Brass.

100% built in Sydney, Australia, these luminaires are designed to withstand our Australian conditions.

When power and colour collide

The all new AQL-980 series

Artisan at a glance

AQA-101

AQA-102

AQA-103

AQA-104

AQA-106

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQA-101

TECHNICAL

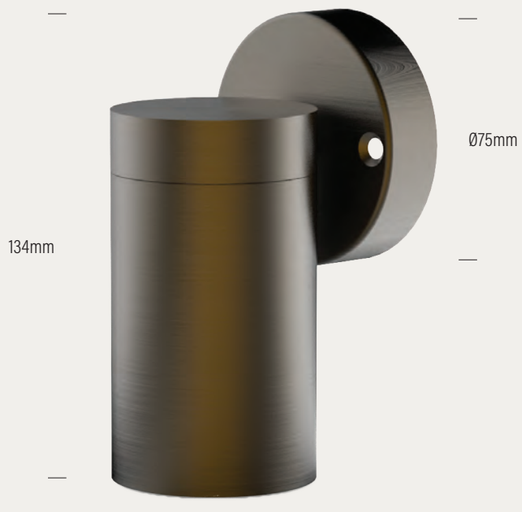
Product Code AQA-101 **Product Family** Artisan **Function** Wall Mounted
Construction Solid Aged Brass / Electroplated Stainless Steel 316
Electrical 12 ~ 24V AC / DC MultiSource Driver / MR16 SELV Drop-In Lamp **IP Rating** IP65
Warranty 10 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass	12~24V AC / 24V DC Dimming: 3-Wire PWM	14W / 1100lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Electroplated	MR16 Dimming: Lamp Dependant	14W / 1200lm / 5700K	Medium (25°)	
		14W / 1100lm / 2700K	Wide (40°)	

IP65 LM80 10Y

Specifications subject to change, always check website for the latest details.

AQA-102



TECHNICAL

Product Code AQA-102 **Product Family** Artisan **Function** Wall Mounted
Construction Solid Aged Brass / Electroplated Stainless Steel 316
Electrical 12 ~ 24V AC / DC MultiSource Driver / MR16 SELV **IP Rating** IP65
Warranty 10 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass	12~24V AC / 24V DC Dimming: 3-Wire PWM	7W / 550lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Electroplated	MR16 Dimming: Lamp Dependant	7W / 600lm / 5700K	Medium (25°)	
		7W / 550lm / 2700K	Wide (40°)	

IP65 LM80 10Y

Specifications subject to change, always check website for the latest details.

AQA-103

TECHNICAL

Product Code AQA-103 **Product Family** Artisan **Function** Wall Mounted
Construction Solid Aged Brass / Electroplated Stainless Steel 316 **Electrical** 12 ~ 24V AC / DC MultiSource Driver / MR16 SELV
IP Rating IP65 **Warranty** 10 Year Aqualux Warranty

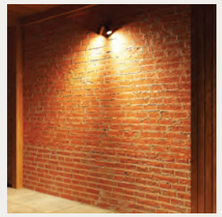
Finish	Control Gear	Light Source	Optical	Cable
Aged Brass	12~24V AC / 24V DC Dimming: 3-Wire PWM	7W / 550lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Electroplated	MR16 Dimming: Lamp Dependant	7W / 600lm / 5700K	Medium (25°)	
		7W / 550lm / 2700K	Wide (40°)	

Specifications subject to change, always check website for the latest details.

AQA-104

TECHNICAL

Product Code AQA-104 **Product Family** Artisan **Function** Wall Mounted
Construction Solid Aged Brass / Electroplated Stainless Steel 316 **Electrical** 12 ~ 24V AC / DC MultiSource Driver / MR16 SELV
IP Rating IP65 **Warranty** 10 Year Aqualux Warranty



Finish	Control Gear	Light Source	Optical	Cable
Aged Brass	12~24V AC / 24V DC Dimming: 3-Wire PWM	14W / 1100lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Electroplated	MR16 Dimming: Lamp Dependant	14W / 1200lm / 5700K	Medium (25°)	
		14W / 1100lm / 2700K	Wide (40°)	

Specifications subject to change, always check website for the latest details.

Spot Light

AQA-106

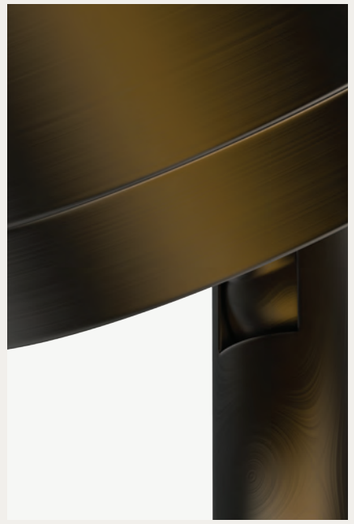
TECHNICAL

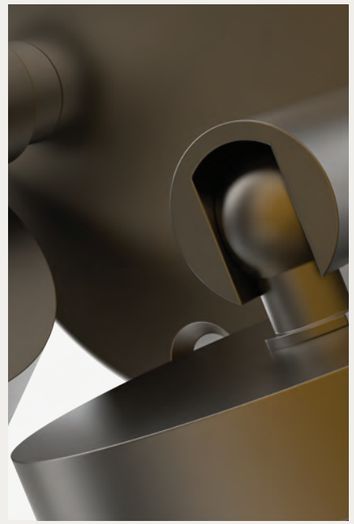
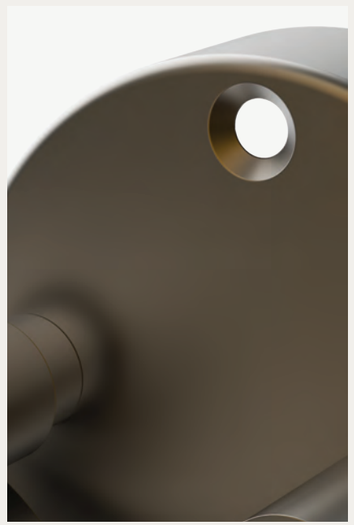
Product Code AQA-106 **Product Family** Artisan **Mounting** Spot Light
Construction Solid Aged Brass / Electroplated Stainless Steel 316 **Electrical** 12 ~ 24V AC / DC MultiSource Driver / MR16 SELV
IP Rating IP65 **Warranty** 10 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Aged Brass	12~24V AC / 24V DC Dimming: 3-Wire PWM	7W / 550lm / 3000K	Narrow (10°)	Aqualux Cable (1M Std)
Electroplated	MR16 Dimming: Lamp Dependant	7W / 600lm / 5700K	Medium (25°)	
		7W / 550lm / 2700K	Wide (40°)	

IP65 LM80 10V

Specifications subject to change, always check website for the latest details.



Commercial grade, encapsulated Neon Flex strip lighting.

Perfect for leading lines and light bending, a stand-out performance with programable pixel changes.

Pool side possibilities

Neon Flex LED

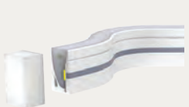
Neon Flex at a glance

AQS-400-Mono

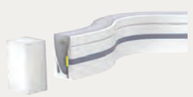
AQS-401-Mono

AQS-402-Mono

AQS-410-RGB

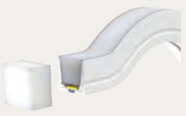


AQS-420-Mono



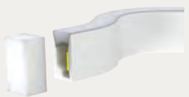
AQS-420-RGB

AQS-421-Mono



AQS-421-RGBW

AQS-500-Mono



AQS-500-RGB

AQS-500-RGBW

AQS-500-DMX

AQS-505-Mono

AQS-510-Mono

AQS-510-RGB

AQS-510-RGBW

AQS-510-DMX

AQS-170-Mono

AQS-170-Box Kits

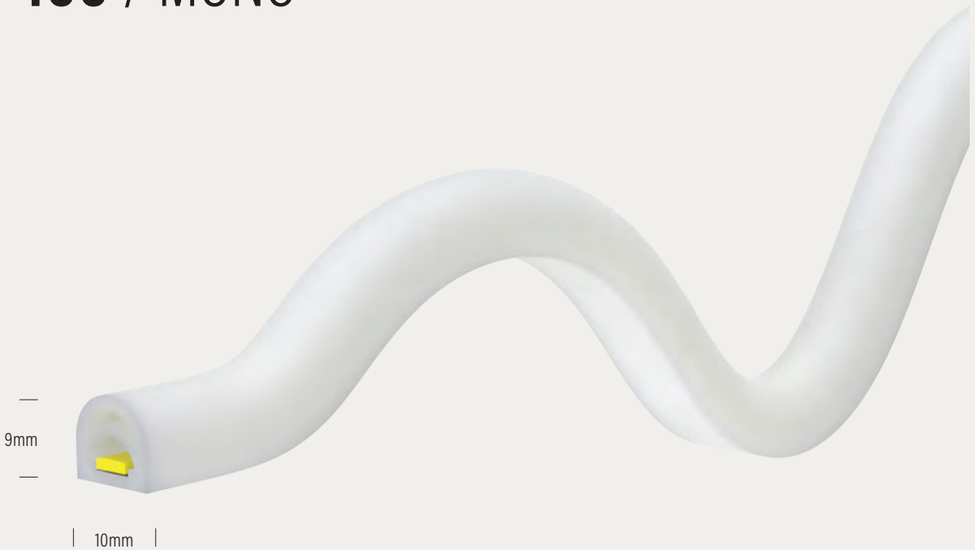
AQS-172-Mono

AQS-172-Box Kits

AQS-173-RGBW

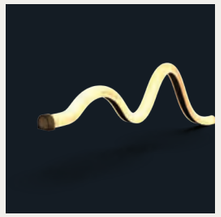
For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 14 - 15 or visit www.aqualux.com.au

AQS-400 / MONO



TECHNICAL

Product Code AQS-400 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX / DALI
Max Length (Single Power Feed) 8m **Max Length** (Double Power Feed) 16m **Cut Interval** 31mm **Bend Direction** Vertically
Minimum Bend Diameter 60mm **LED Type** 2216 **LED Qty / M** 6pcs
Lumen Maintenance 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Silicone **Emission Angle** 180°
Operating Temperature -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-400-27A05	2700K	24V DC	5W	250lm	AQS-400-ACC-03 1m Polycarbonate	D01
AQS-400-30A05	3000K	24V DC	5W	275lm	AQS-400-ACC-04 2m Polycarbonate	
AQS-400-40A05	4000K	24V DC	5W	290lm	AQS-400-ACC-01 Aluminium clip	
AQS-400-50A05	5000K	24V DC	5W	300lm		
AQS-400-60A05	6000K	24V DC	5W	310lm		
AQS-400-27A10	2700K	24V DC	10W	500lm		
AQS-400-30A10	3000K	24V DC	10W	550lm		
AQS-400-40A10	4000K	24V DC	10W	580lm		
AQS-400-50A10	5000K	24V DC	10W	600lm		
AQS-400-60A10	6000K	24V DC	10W	620lm		

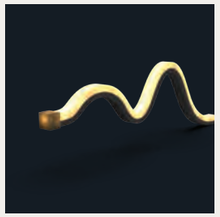
IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-401 / MONO

TECHNICAL

Product Code AQS-401 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 8m
Max Length (Double Power Feed) 16m **Cut Interval** 36mm **Bend Direction** Vertically **Minimum Bend Diameter** 80mm
LED Type 2835 **LED Qty / M** 168pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Silicone
Emission Angle 180° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Years Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-401-27A05	2700K	24V DC	5W	450lm	AQS-401-ACC-01 1m Aluminium	D01
AQS-401-27A10	2700K	24V DC	10W	500lm	AQS-401-ACC-02 2m Aluminium	
AQS-401-30A10	3000K	24V DC	10W	550lm	AQS-401-ACC-03 Aluminium clip	
AQS-401-40A10	4000K	24V DC	10W	580lm		
AQS-401-50A10	5000K	24V DC	10W	600lm		
AQS-401-60A10	6000K	24V DC	10W	620lm		

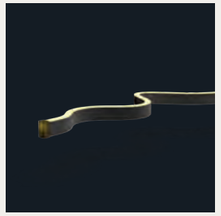
IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-402 / MONO

TECHNICAL

Product Code AQS-402 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 50mm **Bend Direction** Horizontally **Minimum Bend Diameter** 100mm
LED Type SMD2835 **LED Qty / M** 120pcs **Lumen Maintenance** 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C
Installation Temperature 5° to +35°C **Warranty** 3 Year Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-402-27A05	2700K	24V DC	5W	154lm	AQS-402-ACC-01 2m Aluminium	D01
AQS-402-27A10	2700K	24V DC	10W	299lm	AQS-402-ACC-02 1m Bendable S-Type Aluminium	
AQS-402-30A05	3000K	24V DC	5W	178lm	AQS-402-ACC-03 15mm Aluminium Clip	
AQS-402-30A10	3000K	24V DC	10W	353lm		
AQS-402-40A10	4000K	24V DC	10W	360lm		
AQS-402-50A10	5000K	24V DC	10W	380lm		

IP20 LM80 2Y

Specifications subject to change, always check website for the latest details.

AQS-410 / RGB

TECHNICAL

Product Code AQS-410 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX
Max Length (Single Power Feed) 10m **Max Length** (Double Power Feed) 20m **Cut Interval** 55.5mm **Bend Direction** Vertically
Minimum Bend Diameter 80mm **LED Type** 4040 3-in-1 **LED Qty / M** 108pcs
Lumen Maintenance 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Silicone **Emission Angle** 180°
Operating Temperature -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-410-Z1A10	RGB	24V DC	10W	500lm	AQS-410-ACC-02 1m Polycarbonate	D01
					AQS-410-ACC-01 Polycarbonate clip	

IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-420 / MONO

TECHNICAL

Product Code AQS-420 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 50mm **Bend Direction** Horizontally **Minimum Bend Diameter** 120mm
LED Type SMD5050 **LED Qty / M** 120pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-420-27A10	2700K	24V DC	10W	263lm	AQS-420-ACC-01 1m Aluminium	D01
AQS-420-30A10	3000K	24V DC	10W	270lm		S01
AQS-420-40A10	4000K	24V DC	10W	285lm	AQS-420-ACC-02 2m Aluminium	B01
AQS-420-50A10	5000K	24V DC	10W	290lm		
AQS-420-60A10	6000K	24V DC	10W	290lm		

IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-420 / RGB

TECHNICAL

Product Code AQS-420 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 66mm **Bend Direction** Horizontally **Minimum Bend Diameter** 80mm
LED Type SMD5050 **LED Qty / M** 90pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C Installation Temperature 5° to +35°C
Warranty 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-420-Z1A10	RGB	24V DC	10W	500lm	AQS-420-ACC-01 1m Aluminium	D01
						S01
					AQS-420-ACC-02 2m Aluminium	B01

IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-420 / RGBW

TECHNICAL

Product Code AQS-420 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 66mm **Bend Direction** Horizontally **Minimum Bend Diameter** 120mm
LED Type SMD5050 **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-420-Z3A10	RGBW + 2700K	24V DC	10W	500lm	AQS-420-ACC-01 1m Aluminium	D01
AQS-420-Z4A10	RGBW + 6500K	24V DC	10W	496lm	AQS-420-ACC-02 2m Aluminium	S01
						B01

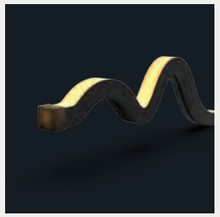
IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-421 / MONO

TECHNICAL

Product Code AQS-421 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 66mm **Bend Direction** Horizontally **Minimum Bend Diameter** 80mm
LED Type SMD5050 **LED Qty / M** 90pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C Installation Temperature 5° to +35°C
Warranty 3 Year Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-421-27A15	2700K	24V DC	15W	766lm	AQS-421-ACC-AL-03 2m Aluminium	D01
AQS-421-30A15	3000K	24V DC	15W	748lm		D03
AQS-421-40A15	4000K	24V DC	15W	915lm		S01
AQS-421-50A15	5000K	24V DC	15W	930lm		B01

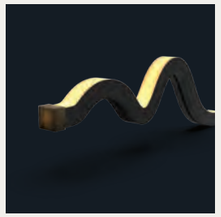
IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-421 / RGBW

TECHNICAL

Product Code AQS-421 **IP Rating** IP65 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 66mm **Bend Direction** Horizontally **Minimum Bend Diameter** 120mm
LED Type SMD5050 **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Silicone **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-420-Z3A10	RGBW + 2700K	24V DC	10W	500lm	AQS-421-ACC-AL-03 2m Aluminium	D01
AQS-420-Z4A10	RGBW + 6500K	24V DC	10W	496lm		D03
						S01
						B01

IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-500 / MONO

TECHNICAL

Product Code AQS-500 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) / DMX **Bend Direction** Horizontally
Max Length (Single Power Feed) 10m (12W) / 15m (5W / 8W) **Max Length** (Double Power Feed) 20m (12W) / 30m (5W / 8W)
Cut Interval 100mm (12W) / 167mm (5W / 8W) **Minimum Bend Diameter** 120mm **LED Type** SMD3528 (5W) / SMD5050 (12W / 8W)
LED Qty / M 72pcs (5W) / 60pcs (8W / 12W) **Lumen Maintenance** 70,000 Hours L70@ 25°C **Materials** Eco PVC **Emission Angle** 120°
Operating Temperature -20° to +40°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-500-27A12	2700K	24V DC	12W	150lm	AQS-500-ACC-AL-01 1m Aluminium	D01SM
AQS-500-30A12	3000K	24V DC	12W	280lm	AQS-500-ACC-AL-02 2m Aluminium	D02SF*
AQS-500-40A12	4000K	24V DC	12W	330lm	AQS-500-ACC-AL2-01 1m Aluminium	D03SFM
AQS-500-50A12	5000K	24V DC	12W	330lm	AQS-500-ACC-AL3-02 2m Aluminium	S01SM
AQS-500-65A12	6500K	24V DC	12W	350lm		S02SF
						S03SFM
						B01SM
						B02SF*
						B03SFM

*For use in DMX / SPI signal flow direction.

3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-500 / RGB

TECHNICAL

Product Code AQS-500 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 100mm **Bend Direction** Horizontally **Minimum Bend Diameter** 80mm
LED Type SMD5050 **LED Qty / M** 60pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Eco PVC **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-500-Z1A12	RGB	24V DC	12W	Check website	AQS-500-ACC-AL-01 1m Aluminium AQS-500-ACC-AL-02 2m Aluminium AQS-500-ACC-AL2-01 1m Aluminium AQS-500-ACC-AL3-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM

*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y IP65 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-500 / RGBW

TECHNICAL

Product Code AQS-500 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 8m
Max Length (Double Power Feed) 16m **Cut Interval** 100mm **Bend Direction** Horizontally **Minimum Bend Diameter** 80mm
LED Type SMD5050 **LED Qty / M** 60pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Eco PVC
Emission Angle 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-500-Z2A15	RGBW + 3000K	24V DC	17W	Check website	AQS-500-ACC-AL-01 1m Aluminium AQS-500-ACC-AL-02 2m Aluminium AQS-500-ACC-AL2-01 1m Aluminium AQS-500-ACC-AL3-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM
AQS-500-Z3A15	RGBW + 2700K	24V DC	17W			
AQS-500-Z4A15	RGBW + 6500K	24V DC	17W			

*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-500 / DMX

TECHNICAL

Product Code AQS-500 **IP Rating** IP68 **Working Mode** Constant Voltage DMX **Max Length** (Single Power Feed) 8m
Max Length (Double Power Feed) 16m **Cut Interval** 100mm **Bend Direction** Horizontally **Minimum Bend Diameter** 80mm
LED Type SMD5050 **LED Qty / M** 60pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Eco PVC
Emission Angle 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-500-Z6A18	RGB + 2700K	24V DC	18W	Check website	AQS-500-ACC-AL-01 1m Aluminium AQS-500-ACC-AL-02 2m Aluminium AQS-500-ACC-AL2-01 1m Aluminium AQS-500-ACC-AL3-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM

*For use in DMX / SPI signal flow direction.

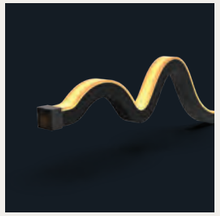
IP68 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-505 / MONO

TECHNICAL

Product Code AQS-505 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 83.30mm **Bend Direction** Vertically **Minimum Bend Diameter** 80mm
LED Type SMD2835 **LED Qty / M** 144pcs **Lumen Maintenance** 50,000 Hours L70@ 50°C **Materials** Eco PVC **Emission Angle** 120°
Operating Temperature -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty



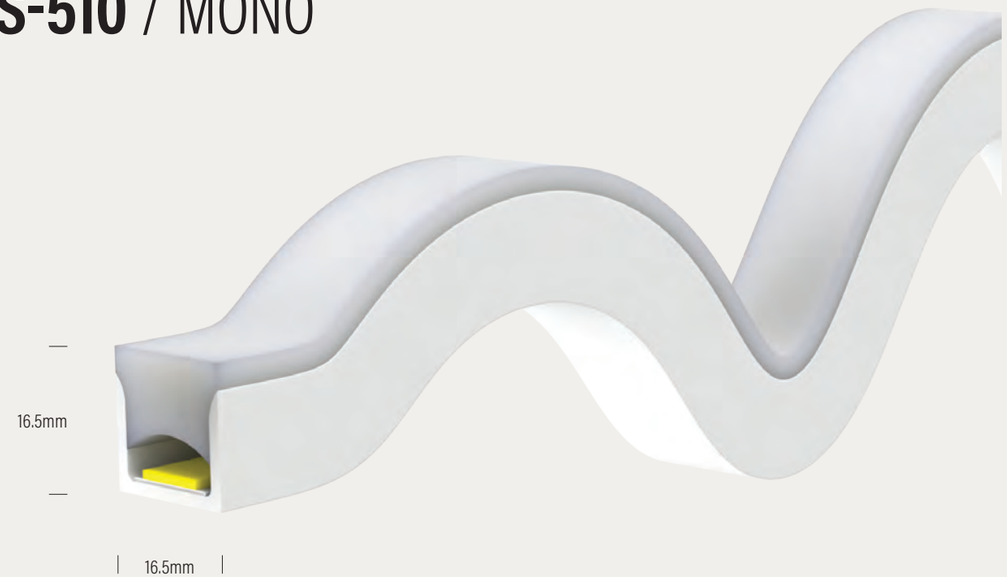
Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-505-RDA10	Red	24V DC	10W	140lm	AQS-505-ACC-AL-01 1m Aluminium AQS-505-ACC-AL-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM
AQS-505-GNA10	Green	24V DC	10W	400lm		
AQS-505-BUA10	Blue	24V DC	10W	70lm		
AQS-505-22A10	2200K	24V DC	10W	410lm		
AQS-505-25A10	2500K	24V DC	10W	410lm		
AQS-505-27A10	2700K	24V DC	10W	410lm		
AQS-505-30A10	3000K	24V DC	10W	410lm		
AQS-505-35A10	3500K	24V DC	10W	430lm		
AQS-505-40A10	4000K	24V DC	10W	430lm		
AQS-505-45A10	4500K	24V DC	10W	460lm		
AQS-505-50A10	5000K	24V DC	10W	460lm		
AQS-505-57A10	5700K	24V DC	10W	460lm		
AQS-505-65A10	6500K	24V DC	10W	460lm		

*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y 3S 24V DC

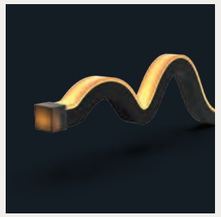
Specifications subject to change, always check website for the latest details.

AQS-510 / MONO



TECHNICAL

Product Code AQS-510 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) **Max Length** (Single Power Feed) 10m
Max Length (Double Power Feed) 20m **Cut Interval** 83.30mm **Bend Direction** Vertically **Minimum Bend Diameter** 120mm
LED Type SMD3528 **LED Qty / M** 144pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Eco PVC **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty **Note** Extended range or colour temperatures available on request.

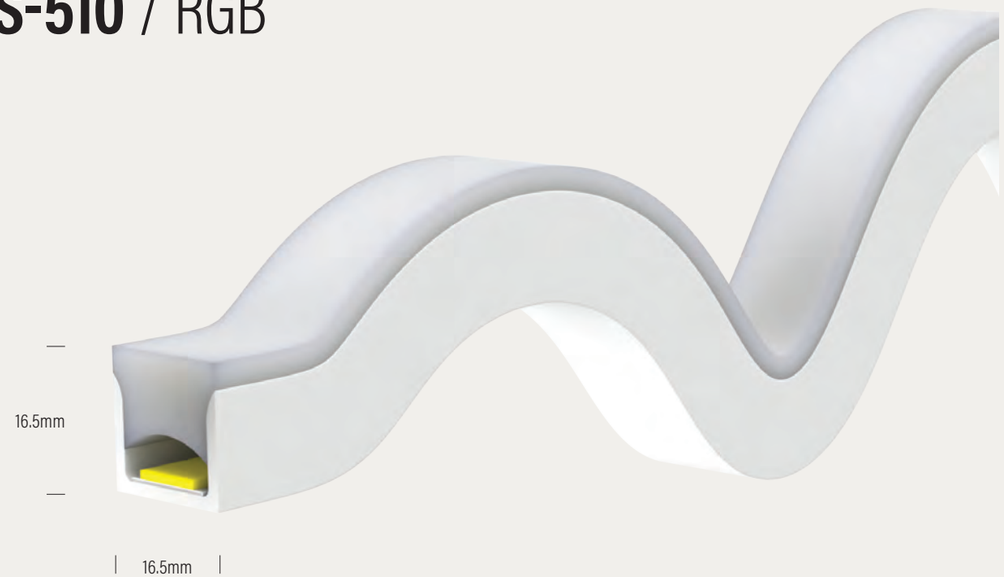


Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-510-RDA10	Red	24V DC	10W	120lm	AQS-510-ACC-AL-01 1m Aluminium	D01SM
AQS-510-GNA10	Green	24V DC	10W	390lm	AQS-510-ACC-AL-02 2m Aluminium	D02SF*
AQS-510-BUA10	Blue	24V DC	10W	90lm	AQS-510-ACC-AL-03 1m Polycarbonate	D03SFM
AQS-510-AMA10	Amber	24V DC	10W	360lm	AQS-510-ACC-AL2-02 2m Aluminium	S01SM
AQS-510-22A10	2200K	24V DC	10W	360lm		S02SF
AQS-510-25A10	2500K	24V DC	10W	360lm		S03SFM
AQS-510-27A10	2700K	24V DC	10W	360lm		B01SM
AQS-510-30A10	3000K	24V DC	10W	370lm		B02SF*
AQS-510-35A10	3500K	24V DC	10W	370lm		B03SFM
AQS-510-40A10	4000K	24V DC	10W	370lm		*For use in DMX / SPI signal flow direction.
AQS-510-45A10	4500K	24V DC	10W	370lm		
AQS-510-50A10	5000K	24V DC	10W	400lm		
AQS-510-57A10	5700K	24V DC	10W	400lm		
AQS-510-65A10	6500K	24V DC	10W	400lm		

IP68 LM80 3Y 3S 24V DC

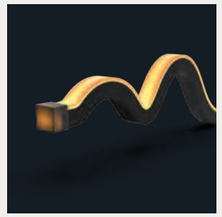
Specifications subject to change, always check website for the latest details.

AQS-510 / RGB



TECHNICAL

Product Code AQS-510 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) / DMX
Max Length (Single Power Feed) 10m **Max Length** (Double Power Feed) 20m **Cut Interval** 83.30mm **Bend Direction** Vertically
Minimum Bend Diameter 120mm **LED Type** SMD3528 **LED Qty / M** 72pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Eco PVC **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty

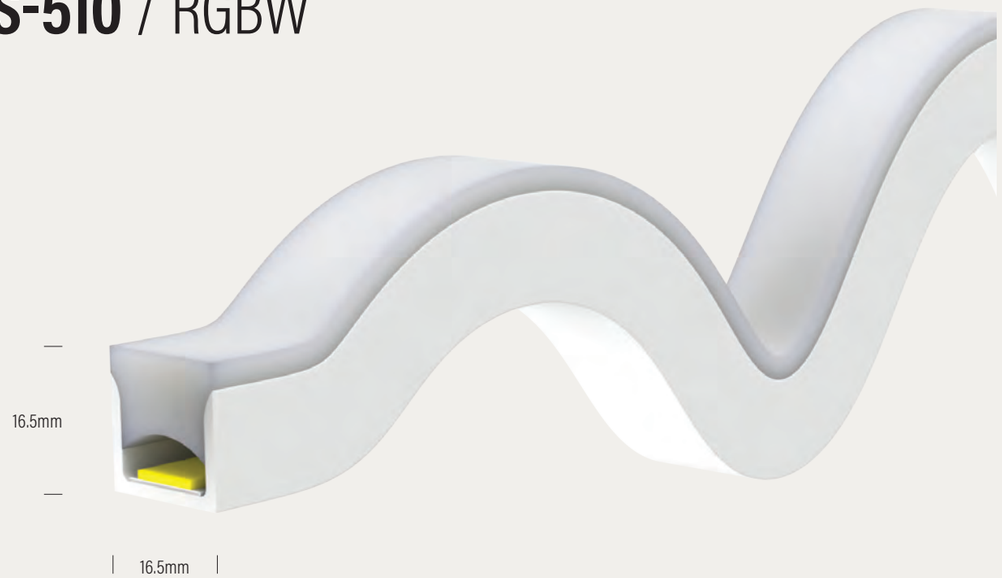


Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-510-Z1A13	RGB	24V DC	13W	Check website	AQS-510-ACC-AL-01 1m Aluminium	D01SM
					AQS-510-ACC-AL-02 2m Aluminium	D02SF*
					AQS-510-ACC-AL-03 1m Polycarbonate	D03SFM
					AQS-510-ACC-AL2-02 2m Aluminium	S01SM
						S02SF
						S03SFM
						B01SM
						B02SF*
						B03SFM
						*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y 3S 24V DC

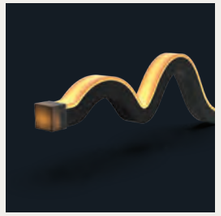
Specifications subject to change, always check website for the latest details.

AQS-510 / RGBW



TECHNICAL

Product Code AQS-510 **IP Rating** IP68 **Working Mode** Constant Voltage (PWM) / DMX
Max Length (Single Power Feed) 8m **Max Length** (Double Power Feed) 16m **Cut Interval** 100mm **Bend Direction** Vertically
Minimum Bend Diameter 120mm **LED Type** SMD3528 **LED Qty / M** 60pcs
Lumen Maintenance 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C **Materials** Eco PVC **Emission Angle** 120°
Operating Temperature -20° to +40°C **Installation Temperature** 5° to +35°C **Warranty** 3 Year Aqualux Warranty



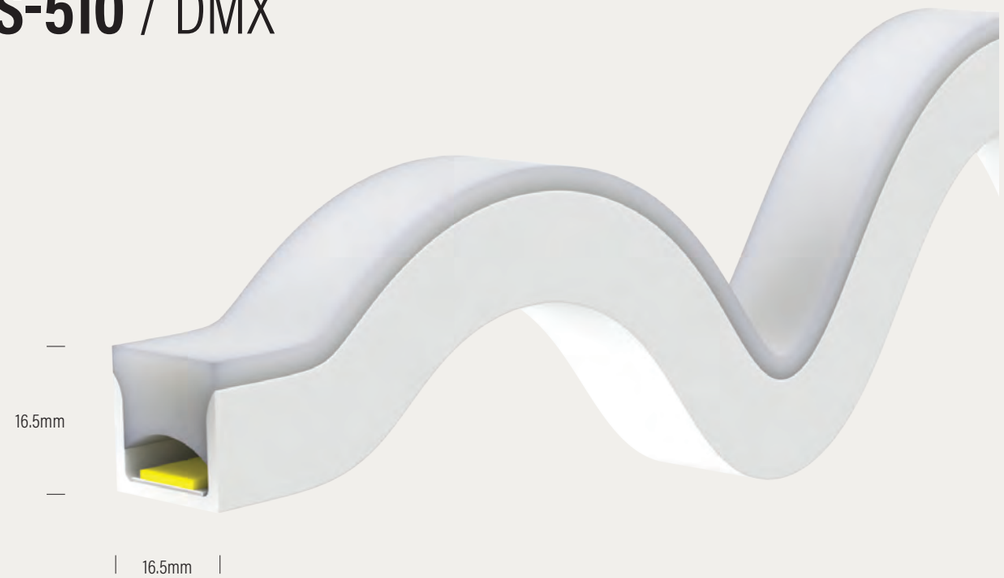
Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-510-Z3A17	RGBW + 2700K	24V DC	17W	Check website	AQS-510-ACC-AL-01 1m Aluminium AQS-510-ACC-AL-02 2m Aluminium AQS-510-ACC-AL-03 1m Polycarbonate AQS-510-ACC-AL2-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM

*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y 3S 24V DC

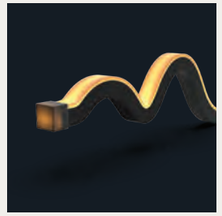
Specifications subject to change, always check website for the latest details.

AQS-510 / DMX



TECHNICAL

Product Code AQS-510 **IP Rating** IP68 **Working Mode** DMX (RS485) **Max Length** (Single Power Feed) 8m
Max Length (Double Power Feed) 16m **Cut Interval** 100mm **Bend Direction** Vertically **Minimum Bend Diameter** 120mm
LED Type SMD5050 **LED Qty / M** 70pcs **Lumen Maintenance** 70,000 Hours L70@ 25°C, 50,000 Hours L70@ 50°C
Materials Eco PVC **Emission Angle** 120° **Operating Temperature** -20° to +40°C **Installation Temperature** 5° to +35°C
Warranty 3 Year Aqualux Warranty



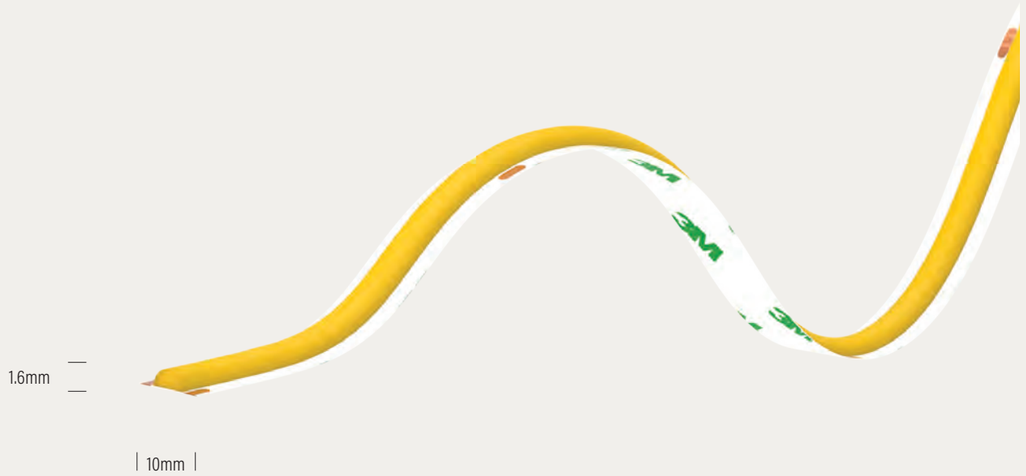
Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-510-Z3A18	RGBW + 2700K	24V DC	18W	Check website	AQS-510-ACC-AL-01 1m Aluminium AQS-510-ACC-AL-02 2m Aluminium AQS-510-ACC-AL-03 1m Polycarbonate AQS-510-ACC-AL2-02 2m Aluminium	D01SM D02SF* D03SFM S01SM S02SF S03SFM B01SM B02SF* B03SFM

*For use in DMX / SPI signal flow direction.

IP68 LM80 3Y 3S 24V DC

Specifications subject to change, always check website for the latest details.

AQS-170 / MONO



TECHNICAL

Product Code AQS-170 **Voltage** 24V DC **Watts (per Meter)** 5W / 10W / 15W **IP Rating** IP20 **Lumen Output (per Meter)** 970lm / 1418lm
CCT & Colour Options 2700K / 3000K / 4000K / 6500K **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 5m
Max Length (Double Power Feed) 10m **Cut Interval** 31.25mm **Bend Direction** Vertically **Minimum Bend Diameter** 50mm **LED Type** Sanan COB
LED Qty / M 360pcs **Lumen Maintenance** 50,000 Hours L70@ 30°C **Materials** 3M Adhesive Backing **Emission Angle** 180°
Operating Temperature -20°C to +40°C **Installation Temperature** 5°C to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-170-27A05	2700K	24V DC	5W	482lm	AQS-170-ACC-04 1m Bendable	AQS-170-ACC-01
AQS-170-30A05	3000K	24V DC	5W	520lm	AQS-170-ACC-05 2m Bendable	AQS-170-ACC-02
AQS-170-40A05	4000K	24V DC	5W	575lm	AQS-170-ACC-06 Metal Clips for profile	AQS-170-ACC-03
AQS-170-65A05	6500K	24V DC	5W	560lm		AQS-170-ACC-08
AQS-170-27A10	2700K	24V DC	10W	970lm		
AQS-170-30A10	3000K	24V DC	10W	1029lm		
AQS-170-40A10	4000K	24V DC	10W	1138lm		
AQS-170-65A10	6500K	24V DC	10W	1124lm		
AQS-170-BUA10	Blue	24V DC	10W	??		
AQS-170-LYA10	Lemon Yellow	24V DC	10W	??		
AQS-170-20A15	2000K	24V DC	15W	1418lm		
AQS-170-27A15	2700K	24V DC	15W	1418lm		
AQS-170-30A15	3000K	24V DC	15W	1527lm		
AQS-170-40A15	4000K	24V DC	15W	1690lm		
AQS-170-65A15	6500K	24V DC	15W	1672lm		

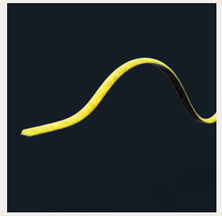
IP20 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQS-170 / BOX KIT

TECHNICAL

Product Code AQS-170 **Voltage** 24V DC **Watts (per Meter)** 5W **IP Rating** IP20 **Lumen Output (per Meter)** 375lm-411lm **Cables** 2 x 15cm Tails & Fast Connectors
CCT & Colour Options 3000K / 4000K / 6500K **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 5m
Max Length (Double Power Feed) 10m **Cut Interval** 31.25mm **Bend Direction** Vertically **Minimum Bend Diameter** 50mm **LED Type** Sanan COB
LED Qty / M 360pcs **Lumen Maintenance** 50,000 Hours L70@ 30°C **Materials** 3M Adhesive Backing **Emission Angle** 180° **Power Supply** 24V DC 30W
Operating Temperature -20°C to +40°C **Installation Temperature** 5°C to +35°C **Warranty** 3 Year Aqualux Warranty



Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-170-30A05-B-5M	3000K	24V DC	5W	375lm	AQS-170-ACC-04 1m Bendable	AQS-170-ACC-01
AQS-170-40A05-B-5M	4000K	24V DC	5W	405lm	AQS-170-ACC-05 2m Bendable	AQS-170-ACC-02
AQS-170-65A05-B-5M	6500K	24V DC	5W	411lm	AQS-170-ACC-06 Metal Clips for profile	AQS-170-ACC-03
						AQS-170-ACC-08

IP20 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQS-172 / MONO

TECHNICAL

Product Code AQS-172 **Voltage** 24V DC **Watts (per Meter)** 5W **IP Rating** IP20 **Lumen Output (per Meter)** 507lm / 580lm
CCT & Colour Options 2700K / 3000K / 4000K / 6500K **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 5m
Max Length (Double Power Feed) 10m **Cut Interval** 31.25mm **Bend Direction** Vertically **Minimum Bend Diameter** 50mm **LED Type** Sanan COB
LED Qty / M 360pcs **Lumen Maintenance** 50,000 Hours L70@ 30°C **Materials** 3M Adhesive Backing **Emission Angle** 180°
Operating Temperature -20°C to +40°C **Installation Temperature** 5°C to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-172-27A05	2700K	24V DC	5W	507lm	AQS-170-ACC-04 1m Bendable	AQS-170-ACC-01
AQS-172-30A05	3000K	24V DC	5W	520lm	AQS-170-ACC-05 2m Bendable	AQS-170-ACC-02
AQS-172-40A05	4000K	24V DC	5W	575lm	AQS-170-ACC-06 Metal Clips for profile	AQS-170-ACC-03
AQS-172-65A05	6500K	24V DC	5W	580lm		AQS-170-ACC-08

IP20 LM80 3Y

AQS-172 / BOX KIT

TECHNICAL

Product Code AQS-172 **Voltage** 24V DC **Watts (per Meter)** 5W **IP Rating** IP20 **Lumen Output (per Meter)** 375lm-411lm **Cables** 2 x 15cm Tails
CCT & Colour Options 3000K / 4000K / 6500K **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 5m
Max Length (Double Power Feed) 10m **Cut Interval** 31.25mm **Bend Direction** Vertically **Minimum Bend Diameter** 50mm **LED Type** Sanan COB
LED Qty / M 360pcs **Lumen Maintenance** 50,000 Hours L70@ 30°C **Materials** 3M Adhesive Backing **Emission Angle** 180° **Power Supply** 24V DC 30W
Operating Temperature -20°C to +40°C **Installation Temperature** 5°C to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-172-30A05-B-5M	3000K	24V DC	5W	375lm	AQS-170-ACC-04 1m Bendable	AQS-170-ACC-01
AQS-172-40A05-B-5M	4000K	24V DC	5W	405lm	AQS-170-ACC-05 2m Bendable	AQS-170-ACC-02
AQS-172-65A05-B-5M	6500K	24V DC	5W	411lm	AQS-170-ACC-06 Metal Clips for profile	AQS-170-ACC-03
						AQS-170-ACC-08

IP20 LM80 3Y

AQS-173 / RGBW

TECHNICAL

Product Code AQS-173 **Voltage** 24V DC **Watts (per Meter)** 16W **IP Rating** IP20 **Lumen Output (per Meter)** 465lm-630lm
CCT & Colour Options RGBW **Working Mode** Constant Voltage (PWM) / DMX **Max Length** (Single Power Feed) 5m
Max Length (Double Power Feed) 10m **Cut Interval** 50mm **Bend Direction** Vertically **Minimum Bend Diameter** 50mm **LED Type** COB RGBW
LED Qty / M 560pcs **Lumen Maintenance** 50,000 Hours L70@ 30°C **Materials** 3M Adhesive Backing **Emission Angle** 180°
Operating Temperature -20°C to +40°C **Installation Temperature** 5°C to +35°C **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts P/M	Lumens P/M	Extrusion	Cable Entry
AQS-173-Z2A16	RGBW + 3000K	24V DC	16W	Colour Dependant	Check Website	Check Website

IP20 LM80 3Y

Specifications subject to change, always check website for the latest details.

Cut to the chase

When measuring Neon Flex and Strip Lighting lengths for your project, don't forget to consider the requirements necessary for an accurate cut.

Cut intervals

Neon Flex and Strip Lighting have fixed cut intervals, these cut intervals determine the overall length, each product has its own cut interval length.

Tolerances

Remember to allow for manufacturing tolerances when designing your strip lighting solution. These are mentioned in the datasheet.

Power supply

Single and double-ended power supplies need to be considered. Each product will have a maximum single-end run length before a double-end power supply is needed. There is a maximum double-end power supply run length before a new circuit is required.

Extrusions

Extrusions are made to fit specific products using clips and channels in Stainless Steel, Polycarbonate, or Aluminium. Most common lengths are straight, although some products offer bendable options.

Cable entry

All products have a cable entry point. Some products have only one option, while other products offer side, bottom, or direct cable entry points.

Gaps and endcaps

Physical allowances need to be made when using products with endcaps and cable entry points.

Check how long the endcap and cable entry is, they usually do not fit into the extrusion. The type of cable entry (side, bottom, or direct) will determine how much of an allowance is necessary for safe use.

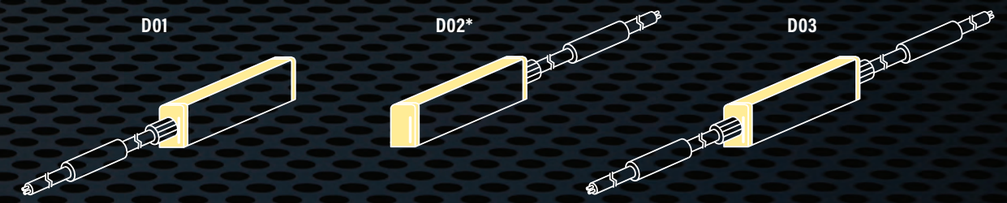
Minimal tolerances need to be met. Before creating a run-length using multiple lengths, including the placement of cable entry points to power supplies.

Getting connected

Standardising Neon Flex cable entries for Anti-Siphon and Quick Connect applications is as easy as D, S, B.

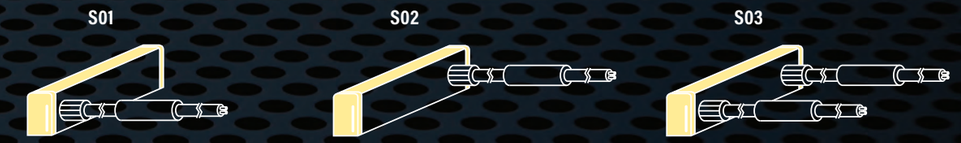
Anti-Siphon Cable Entry Options

Direct Cable Entry

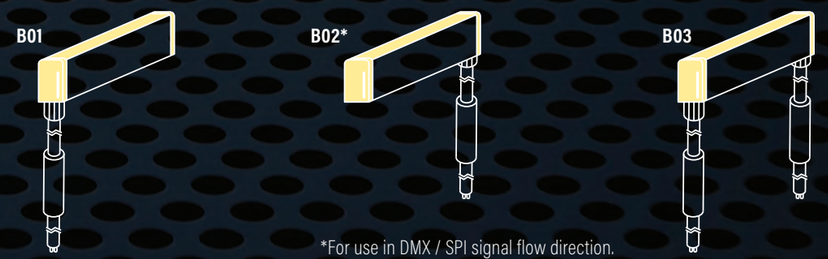


*For use in DMX / SPI signal flow direction.

Side Cable Entry



Bottom Cable Entry

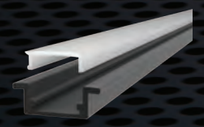


*For use in DMX / SPI signal flow direction.

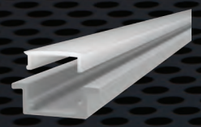
Staying in the groove

A range of Neon Flex extrusion and mounting clips in Polycarbonate, Aluminium and Stainless Steel.

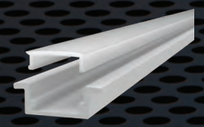
AQS Mounting Extrusions



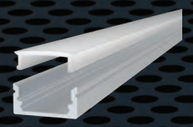
AQS-100-AL-001-2.5M-BK
Aluminium - 2.5m
8mm H x 17.1mm W channel



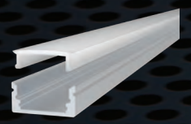
AQS-100-AL-001-2.5M-SC
Aluminium - 2.5m
8mm H x 17.1mm W channel



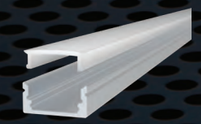
AQS-100-AL-001-2.5M-WH
Aluminium - 2.5m
8mm H x 17.1mm W channel



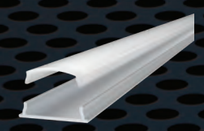
AQS-100-AL-02-1M
Aluminium - 1m
9mm H x 17.3mm W



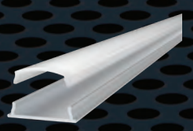
AQS-100-AL-02-2M
Aluminium - 2m
9mm H x 17.3mm W



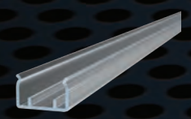
AQS-100-AL-02-2.5M
Aluminium - 2.5m
9mm H x 17.3mm W



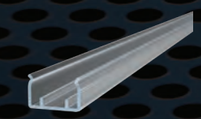
AQS-170-ACC-04
Aluminium - 1m
4mm H x 18mm W



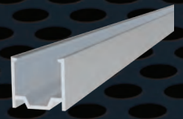
AQS-170-ACC-05
Aluminium -2m
4mm H x 18mm W



AQS-400-ACC-03
Polycarbonate - 1m
8.25mm H x 13.5mm W



AQS-400-ACC-04
Polycarbonate - 2m
8.25mm H x 13.5mm W

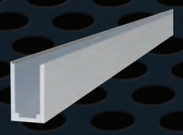


AQS-401-ACC-02
Aluminium - 2m
8.25mm H x 13.5mm W

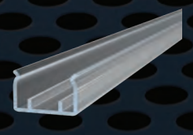
AQS-401-ACC-03
Aluminium Clip
7.5mm H x 11.5mm W

AQS-402-ACC-02
Bendable SS Channel - ?m
11mm H x 8mm W

AQS-402-ACC-03
Aluminium Clip
13mm H x 7.5mm W

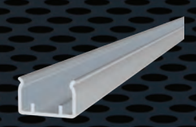


AQS-402-ACC-04
Aluminium - 2m
13mm H x 8mm W

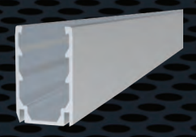


AQS-410-ACC-02
Polycarbonate - 1m
9.1mm H x 15.5mm W

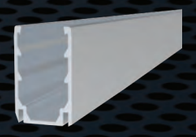
AQS Mounting Extrusions



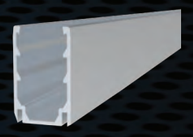
AQS-410-ACC-04
Aluminium - 2m
9.1mm H x 15.51mm W



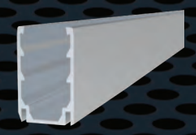
AQS-420-ACC-01
Aluminium - 1m
24.4mm H x 15.1mm W



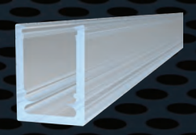
AQS-420-ACC-03
Aluminium - 2m
24.4mm H x 15.1mm W



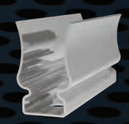
AQS-500-ACC-AL-01
Aluminium - 2m
24.4mm H x 15.1mm W



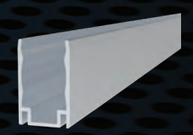
AQS-500-ACC-AL-02
Aluminium - 2m
24.4mm H x 15.1mm W



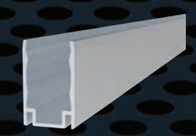
AQS-500-ACC-AL-04
Polycarbonate - 1m
26.25mm H x 19.5mm W



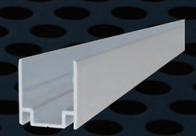
AQS-500-ACC-AL-01-SS
316SS Mounting Clip
23mm H x 14.5mm W



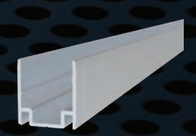
AQS-500-ACC-AL2-01
Aluminium - 1m
21.5mm H x 13.5mm W



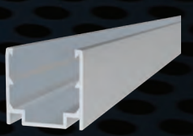
AQS-500-ACC-AL3-02
Aluminium - 2m
21.5mm H x 13.5mm W



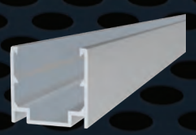
AQS-505-ACC-AL-01
Aluminium - 1m
17mm H x 15mm W



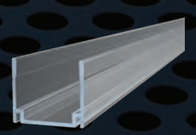
AQS-505-ACC-AL-02
Aluminium - 2m
17mm H x 15mm W



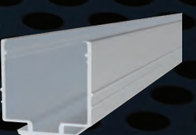
AQS-510-ACC-AL-01
Aluminium - 1m
19.6mm H x 20.4mm W



AQS-510-ACC-AL-02
Aluminium - 2m
19.6mm H x 20.4mm W



AQS-510-ACC-03
Polycarbonate - 1m
16.5mm H x 18.8mm W



AQS-510-ACC-AL-02
Aluminium - 2m
21.75mm H x 21mm W

AQS-510-ACC-01-SS
316SS Mounting Clip
20mm H x 20mm W

Wreck Point

COOEE BAY - QLD

Wreck Point Lookout, Yeppoon. A public sculpture brought to life with dynamic colour changing lighting and leading pathways to an everchanging light filled viewing platform above the rocky point drop-off.

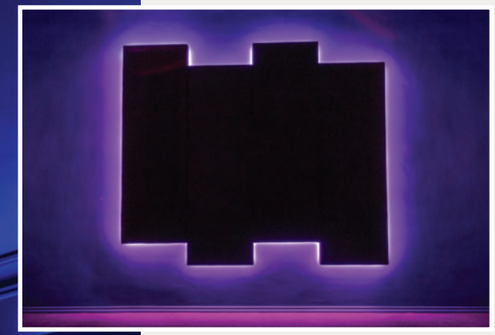
DESIGN BY
Anderson Consulting Engineers / Aqualux

SUPPLIED BY
Haymans Yeppon

PROJECT BRIEF
AQS-500 / RGB

Annangrove Road

ANNANGROVE - NSW



Popcorn Ready for the latest blockbuster or your favourite TV show. The detailed lighting effects using AQS-410-RGB in this home theatre room create a dramatic atmosphere for the personalised cinema experience.

PARTNERS
Beachside electrical solutions
& TLE Northern beaches

LOCATION
Annangrove Rd, Annangrove
Sydney.

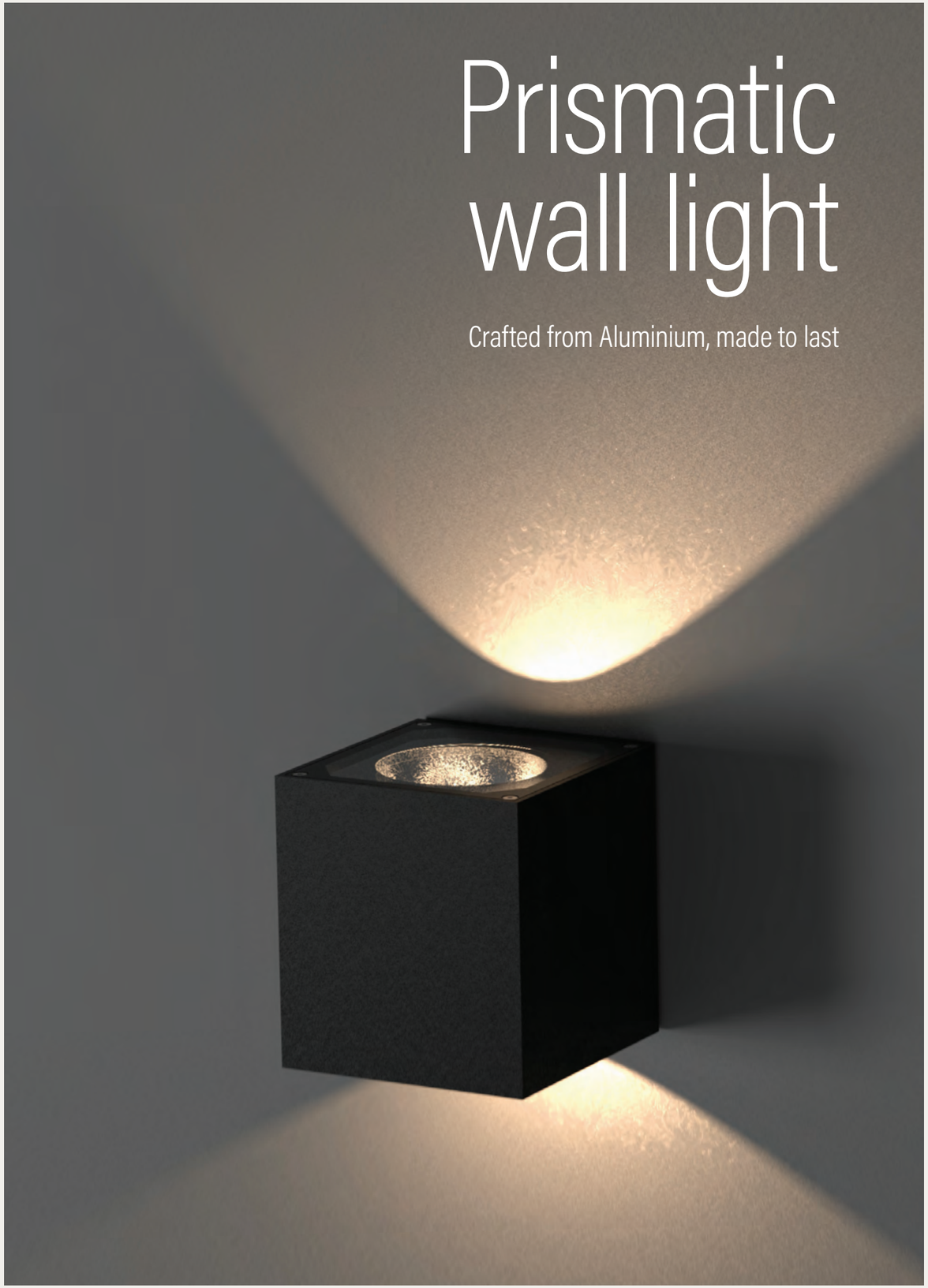
PROJECT BRIEF
AQS-410-RGB - WiFi104 Control Gear

Modern fittings powder coated in a range of colour finishes.

The box and snake-like modular turnable luminaries offer unique opportunities for Architectural Designers.

Prismatic wall light

Crafted from Aluminium, made to last



AQL-600 Series at a glance

AQL-600

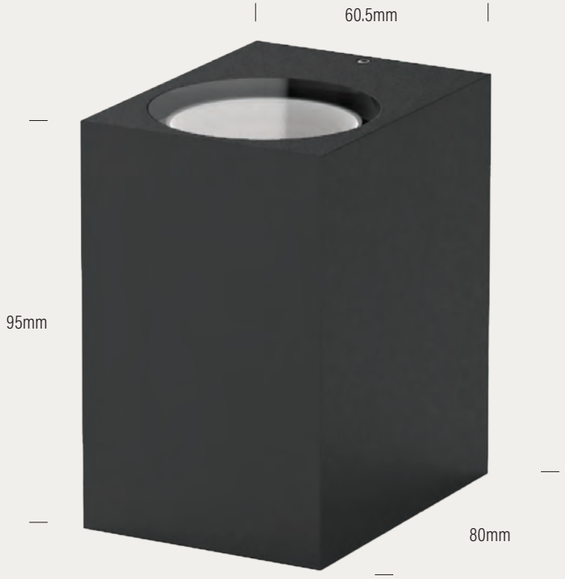
AQL-601

AQL-602

AQL-603

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQL-600



TECHNICAL

Product Code AQL-600 **Product Family** Elements **Function** Wall Mounted
Construction Aluminium + Powder Coat / Black / White
LED CREE 3000K / Integrated 7W **Electrical** 240V AC / 24V DC SELV **IP Rating** IP65
Warranty 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Matt Black	24V DC Dimming: PWM 10V Dimming	7W / 615lm / 3000K	Flood (70°)	Terminal Block
White	240V Dimming: No			

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-601

TECHNICAL

Product Code AQL-601 **Product Family** Elements **Function** Wall Mounted
Construction Aluminium + Powder Coat / Black / White
LED CREE 3000K / Integrated 7W x 2 **Electrical** 240V AC / 24V DC SELV **IP Rating** IP65
Warranty 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Matt Black	24V DC Dimming: PWM 10V Dimming	14W / 1230lm / 3000K	Flood (70°)	Terminal Block
White	240V Dimming: No			

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-602

TECHNICAL

Product Code AQL-602 **Product Family** Elements **Function** Wall Mounted **Construction** Aluminium + Powder Coat / Black
LED CREE 3000K / Integrated 7W **Electrical** 240V AC / 24V DC SELV **IP Rating** IP65
Accessories Includes Optional Narrow Beam Cut off **Warranty** 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Matt Black	24V DC Dimming: PWM 10V Dimming 240V Dimming: No	7W / 615lm / 3000K	Flood (70°)	Terminal Block

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-603

TECHNICAL

Product Code AQL-603 **Product Family** Elements **Function** Wall Mounted **Construction** Aluminium + Powder Coat / Black
LED CREE 3000K / Integrated 14W **Electrical** 240V AC / 24V DC SELV **IP Rating** IP65
Accessories Includes Optional Narrow Beam Cut off **Warranty** 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Matt Black	24V DC Dimming: PWM 10V Dimming 240V Dimming: No	14W / 1230lm / 3000K	Flood (70°)	Terminal Block

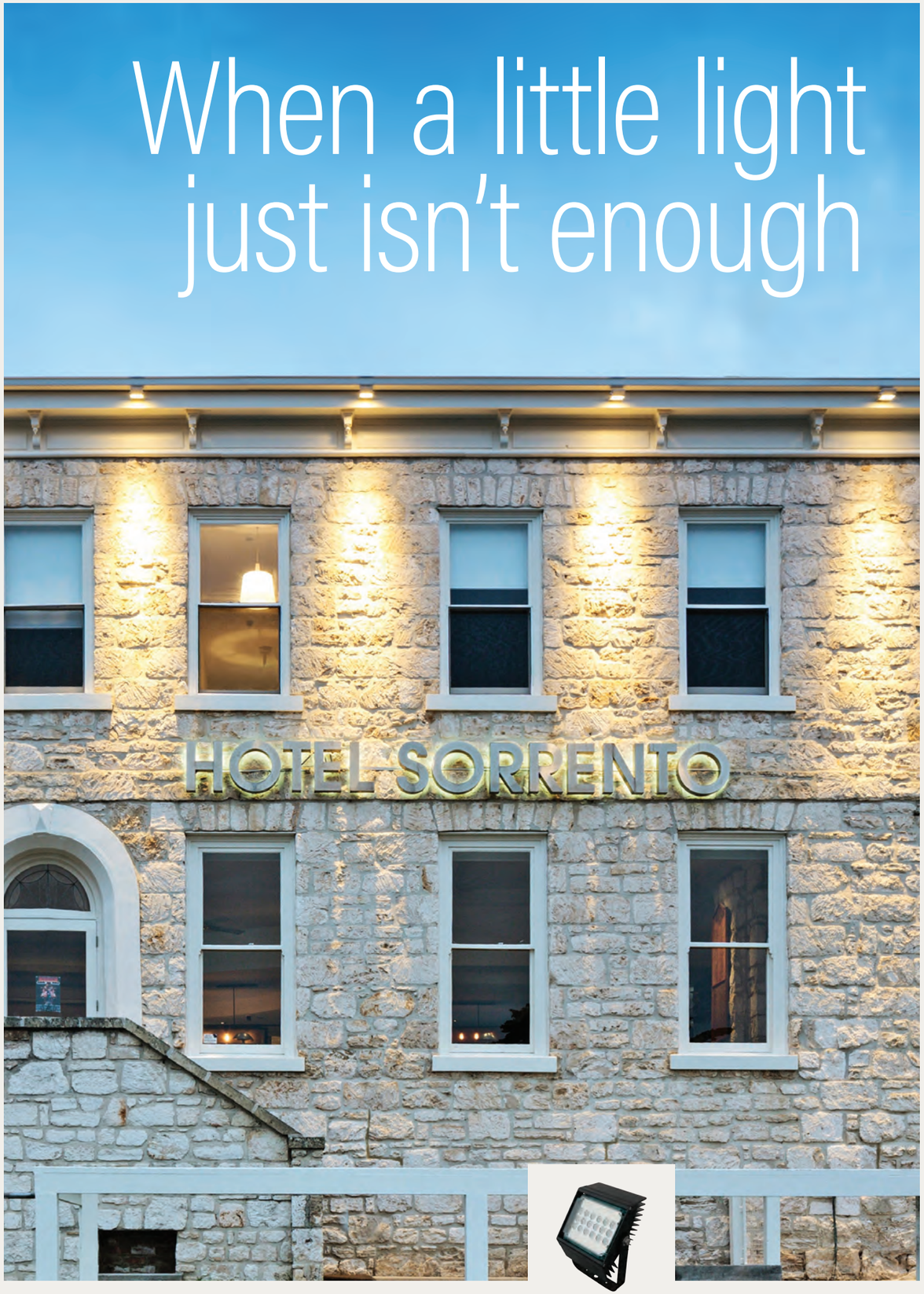
IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

Floodlights, area lighting and street lights... sometimes you just need more light.

Proven high-wattage, colour variants and remote flexibility delivers design and installation possibilities.

When a little light just isn't enough



AQL-900 Series at a glance

AQL-910

AQL-911

AQL-912

AQL-913

AQL-931-F100

AQL-931-F200

AQL-931-F300

AQL-931-F400

AQL-931-500

AQL-931-600

AQL-931-800

AQL-931-1000

For your complete range of codes and finishes refer to our 'Creating the Legend' on pages 206 and 207 or visit www.aqualux.com.au

AQL-910

220mm

137mm

TECHNICAL

Product Code AQL-910 **Product Family** Orion **Function** Area / Floodlight **Mounting** U-Bracket / M6 Bolts
Construction Extruded Aluminium / Black Powder Coated **Electrical** 24V DC **Power** 50W Mono **IP Rating** IP65
Warranty 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Black Powder Coat	24V DC Dimming: PWM Power Dimming	50W / 3375lm / 2700K 50W / 3375lm / 5000K	Medium (25°) Wide (40°) Wide (60°)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-911

220mm

260mm

TECHNICAL

Product Code AQL-911 **Product Family** Orion **Function** Area / Floodlight **Mounting** U-Bracket / M6 Bolts
Construction Extruded Aluminium / Black Powder Coated **Electrical** 24V DC **Power** 100W Mono **IP Rating** IP65
Warranty 3 Year Aqualux Warranty

Finish	Control Gear	Light Source	Optical	Cable
Black Powder Coat	24V DC Dimming: PWM Power Dimming	100W / 6750lm / 2700K 100W / 6750lm / 5000K	Medium (25°) Wide (40°) Wide (60°)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-912

220mm

137mm

TECHNICAL

Product Code AQL-912 **Product Family** Orion **LED** 6 x 5050 RGBW 4-in-1 LED **Output** 2450 lms @ 100% RGBW
Mounting U-Bracket / M6 Bolts SS316 **Construction** Extruded 6061 Aluminium **Electrical** 24V DC / RGBW Control **Power** 50W
IP Rating IP65 **Warranty** 3 Year Warranty **L70** 30,000 hrs @ 100% RGBW **Operating Temp** -10C ~ +40C

Finish	Control Gear	Light Source	Optical	Cable
Black Powder Coat	24V DC Dimming: PWM Power Dimming	50W / 2775lm / RGB+3000K	Medium (30°) Wide (50°) Flood (70°)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-913

220mm

260mm

TECHNICAL

Product Code AQL-913 **Product Family** Orion **LED** 12 x 5050 RGBW 4-in-1 LED **Output** 5560 lms @ 100% RGBW
Mounting U-Bracket / M6 Bolts SS316 **Construction** Extruded 6061 Aluminium **Electrical** 24V DC / RGBW Control **Power** 100W
IP Rating IP65 **Warranty** 3 Year Warranty **L70** 30,000 hrs @ 100% RGBW **Operating Temp** -10C ~ +40C

Finish	Control Gear	Light Source	Optical	Cable
Black Powder Coat	24V DC Dimming: PWM Power Dimming	100W / 5550lm / RGB+3000K	Medium (30°) Wide (50°) Flood (70°)	Aqualux Cable (1M Std)

IP65 LM80 3Y

Specifications subject to change, always check website for the latest details.

AQL-931

TECHNICAL

Product Code AQL-931 **Product Family** Area & Linear **Function** Area Lights **Construction** Aluminium + Black Powder Coat
Electrical 110-277V AC (Custom Driver Options Available) **IP Rating** IP65 **Warranty** 5 Year Aqualux Warranty
Note: Dimension sizes and power outputs change per variant. Check datasheets from the Aqualux website

Product Code	CCT	Beam Angle	Watts	Lumens
AQL-931-F100	3000K	15°	100W	13000
AQL-931-F200	4000K	30°	200W	26000
AQL-931-F300	5700K	45°	300W	39000
AQL-931-F400	6500K	60°	400W	52000
AQL-931-F500		90°	500W	65000
AQL-931-F600		45*85°	600W	78000
AQL-931-F800			800W	104000
AQL-931-F1000			1000W	130000

IP65 LM80 5Y

Specifications subject to change, always check website for the latest details.

Industrial strength

Delivering 13000lm to 130000lm in the 100W to 1000W models, the Aqualux 931 series of area lighting LED floodlights are specifically designed for situations where you need the most output.

AQL-931-F200

AQL-931-F300

AQL-931-F400

AQL-931-F500

AQL-931-F600

AQL-931-F800

AQL-931-F1000

Specifications subject to change, always check website for the latest details.

Macksville Bridge

NAMBUCCA - NSW

PARTNER
Jamie's Electrical and Instrumentation

LOCATION
Nambucca, NSW

PROJECT BRIEF
94 x AQL-180
High Powered Spotlight (Bridge beams)

1 x AQL-980
Flood lights (Cast water reflections)

Designed to be robust, our LED Festoon and Fairy-lights are low energy and low maintenance.

Creating a celebratory atmosphere perfect for commercial and residential uses.

AQF / FESTOON

TECHNICAL

Product Code AQF-C **Electrical** 24V AC / DC **Connector** Twin Core 1.5mm / 1m cable **IP Rating** IP65
Mounting E27 Lamp holder **Construction** PVC Rubber & Polycarbonate Lens
Dimming Globe Dependant **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts Per/Meter	Lumens Per/Meter
AQF-C-050B	Lamp Dependent	24V AC or DC	Lamp Dependent	Lamp Dependent
AQF-C-100B	Lamp Dependent			

Product Code	Description
AQF-D-050	Droppers
AQF-D-100	Droppers
AQF-D-200	Droppers

IP65 3Y

Specifications subject to change, always check website for the latest details.

AQF / FAIRY LIGHTS

TECHNICAL

Product Code AQF-FL **Voltage** 24V DC **Power** 2.2W / 5M **IP Rating** IP65 **Available Lengths** 5M / 10M / 20M
Connector QC Connector / 12 Way Connector **Construction** PVC Ruber & Polycarbonate Lens
Dimming PWM **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts Per/Meter	Length
AQF-FL-GWW-5M	2200k	24V DC	2.16w	5m
AQF-FL-GWW-10M	2200k	24V DC	4.32w	10m
AQF-FL-GWW-20M	2200k	24V DC	8.64w	20m

Product Code	Description
AQF-FL-C12	Fairly Lights Circle Connector 12-Way
AQF-FL-EXT-5W	Fairy Lights. 5m Extension

IP65 3Y

Specifications subject to change, always check website for the latest details.

Cardinals
Salamanca Wharf

HOBART - TAS

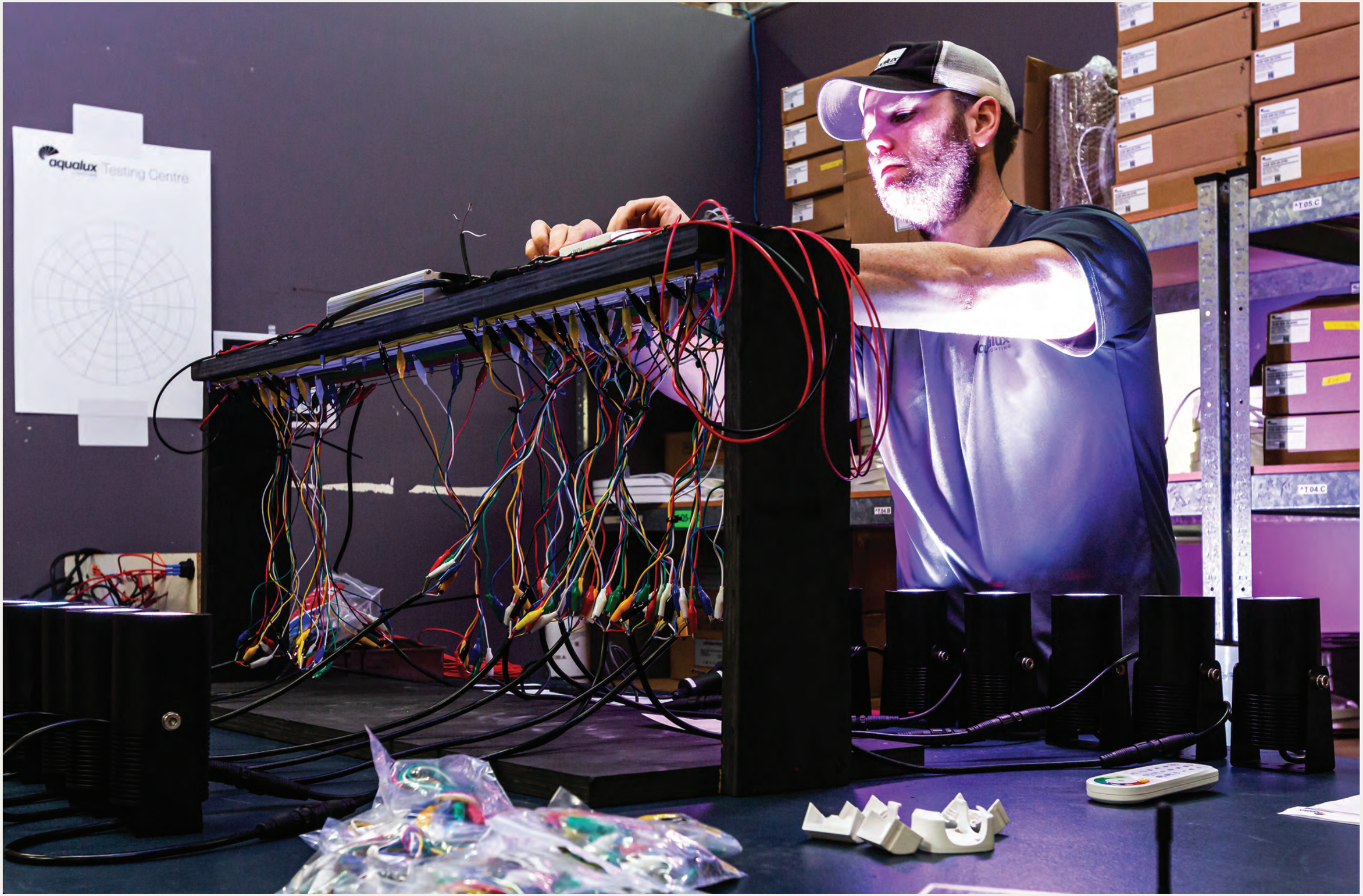
An RGB LED retrofit of Historic lighting sculptures at Sullivans Cove, Hobart

PARTNER
Lights n Lamps
Hobart City Council

LOCATION
Hobart, Australia

PROJECT BRIEF
Retrofit lighting of the iconic Cardinal sculptures at Salamanca Bay, Hobart

High-output RGB strip lights and AQL-910 RGBW floodlights. DMX control system



The nuts and bolts about the technology and its uses.

Controllers, drivers, converters, power supplies, repeaters and globes the brains and accessories.

AQO AC POWER

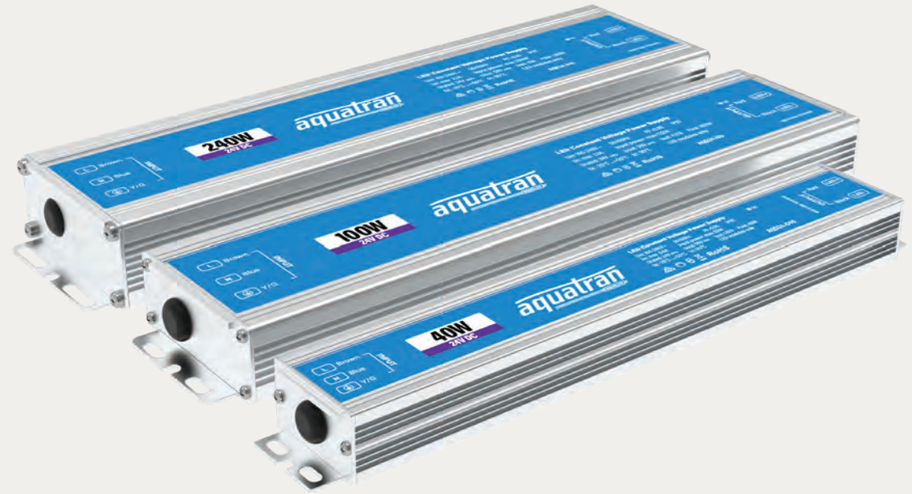
TECHNICAL

Product Code AQO **Input Voltage** 230V AC / 50Hz **Output Voltage** 12V AC / 24V AC
Input Cable 1.8m Flex & Plug **Output Cable** 1M 8mm² Cable **Dimming** Phasecut Diginet MEDM
IP Rating IP67 **Warranty** 10 Year Aquatran Warranty

Product Code	Voltage	Watts
AQO12-020	12V AC	20W
AQO12-050	12V AC	50W
AQO12-100	12V AC	100W
AQO12-200	12V AC	200W
AQO24-050	24V AC	50W
AQO24-100	24V AC	100W
AQO24-200	24V AC	200W
AQO24-300	24V AC	300W
AQO24-400	24V AC	400W

Specifications subject to change, always check website for the latest details.

AQD DC POWER



TECHNICAL

Product Code AQD **Input Voltage** 230V AC / 50Hz **Output Voltage** 24V DC **Input Cable** 1.8m Flex & Plug
Output Cable 500mm Twin Core **Dimming** Non Dimming
IP Rating IP67 **Warranty** 5 Year Aquatran Warranty **Safety** Short Circuit / Thermal Protection

Product Code	Input	Voltage	Watts	Current
AQD24-050	100 - 240V / 50Hz	24V DC	50W	2.3A
AQD24-100	100 - 240V / 50Hz	24V DC	100W	4A
AQD24-200	100 - 240V / 50Hz	24V DC	200W	8.3A

Specifications subject to change, always check website for the latest details.

AGL-250 / 4W

TECHNICAL

Product Code AGL-250 **Available CCT** 3000K / 5700K **Available Colours** Red / Green / Blue / Amber
Input Voltage 12 ~ 24V AC / DC **Optical Beam** 38° FWHM **Luminous Flux** 250lm (3000K)
Power 4W Lamp Base MR16 **L70** 30,000 hrs **Dimensions** 50 x 46mm **Dimming** Non Dimming
Warranty 2 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts Per/Meter	Beam Angle
AGL-250	Red	12 ~ 24V AC / DC	4W	10° - 3000K
	Green			38° - 3000K / 5700K
	Blue			38° - R / R / B / Amber
	Amber			60° - 3000K
	3000k			
	5700k			

IP20 2Y

Specifications subject to change, always check website for the latest details.

AGL-550 / 6W

TECHNICAL

Product Code AGL-550 **Available CCT** 3000K **Input Voltage** 12 ~ 24V AC/DC
Available Beam Angles 36° FWHM / 60° FWHM
Luminous Flux 550lm (36°) **Power** 6W Lamp Base MR16 **L70** 30,000 hrs **Dimensions** 50 x 47mm
Dimming Non Dimming **Warranty** 2 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts Per/Meter	Beam Angle
AGL-550	3000k	12 ~ 24V AC / DC	6W	36° - 3000K
				60° - 3000K

IP20 2Y

Specifications subject to change, always check website for the latest details.

AQF-G-001

TECHNICAL

Product Code AQF-G-001 **Available CCT** 2500K **Construction** Polycarbonate Lens **IP Rating** IP44 (Globe Only)
Input Voltage 24V AC / DC **Power** 0.5W Lamp **Base** E27 **L70** 30,000 hrs **Dimensions** 45.5 x 69.5mm
Dimming PWM (DC) / Phasecut (AC) **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts	Lumens
AQF-G-001	2500k	24V AC / DC	0.5W (AC) / 0.3W (DC)	45lm (AC) / 18lm (DC)

3Y

Specifications subject to change, always check website for the latest details.

AQF-G-002

TECHNICAL

Product Code AQF-G-002 **Available CCT** 2000K **Construction** Polycarbonate Lens **IP Rating** IP44 (Globe Only)
Input Voltage 24V AC / DC **Power** 0.5W Lamp **Base** E27 **L70** 30,000 hrs **Dimensions** 45.5 x 69.5mm
Dimming PWM (DC) / Phasecut (AC) **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts	Lumen
AQF-G-002	2000k	24V AC / DC	0.5W (AC) / 0.4W (DC)	28lm (AC) / 18lm (DC)

3Y

Specifications subject to change, always check website for the latest details.

AQF-G-003

TECHNICAL

Product Code AQF-G-003 **Available CCT** 2700K **Construction** Polycarbonate Lens **IP Rating** IP44 (Globe Only)
Input Voltage 24V AC / DC **Power** 1W Lamp **Base** E27 **L70** 30,000 hrs **Dimensions** 45.5 x 69.5mm
Dimming PWM (DC) / Phasecut (AC) **Warranty** 3 Year Aqualux Warranty

Product Code	CCT	Voltage	Watts	Lumens
AQF-G-003	2700k	24V AC / DC	0.9W (AC) / 0.4W (DC)	60lm (AC) / 26lm (DC)

3Y

AQD-400-WIFI 106

TECHNICAL

Product Code AQD-400-WiFi 106 **Output Signal** PW-CV Protocol 2.4GHz WiFi, 802.11b/g/n **Dimming Range** 0 - 100%
Control Distance Max 100m (line of sight) **Cable** 2.5mm² **Warranty** 5 Year Aqualux Warranty

Product Code	Input Volage	Output Power	Channels	Output Control
AQD-400-WiFi 106	12 ~ 24V DC	192W / 384W	4	Dimming, CT, RGB, RGBW

5Y

AQD-400-T3-CV

TECHNICAL

Product Code AQD-400-T3-CV **Modes** Single Colour / CCT Tuning / Dimming Remote T1/T2/T2M/T3/T3M/T3X
Range 30M (Location Dependant) **Power** 5V / 12V / 24V **Warranty** 2 Year Aqualux Warranty

Product Code	Frequency	Voltage	Watts	Load
AQD-400-T3-CV	2.4GHz	12 ~ 24V DC	90W / 216W / 432W	3CH x 6A - 18A Total

3Y

Specifications subject to change, always check website for the latest details.

AQD-400-T4-RGBW

TECHNICAL

Product Code AQD-400-T4RGBW **Modes** Single Colour / Colour Changing Programs / Custom Receiver AQD-400-T4CV
Remote AQD-400-T4 Range 30M (Location Dependant) **Power** 5V / 12V / 24V **Warranty** 2 Year Aqualux Warranty

Product Code	Frequency	Voltage	Watts	Load
AQD-400-T4RGBW	2.4GHz	12 ~ 24V DC	240W / 480W	4CH x 5A - 20A Total

2Y

Specifications subject to change, always check website for the latest details.

AQD-400-LT912-OLED

TECHNICAL

Product Code AQD-400-LT912-OLED **Modes** Dimming / CT / RGB **Output Power** (0 ~ 48W...96W x 12CH Max. 1152W
DMX Interface 5-pin XLR, RJ45, Green Terminal **Grey Level** 8 Bit (256 levels) / 16 Bit (65536 levels) **Photoelectric Isolation** Yes
Protection Short Circuit / Over Load **Warranty** 2 Year Aqualux Warranty

Product Code	Input Voltage	Dimming Curve	Input Signal	Load
AQD-400-LT912-OLED	12 ~ 24V DC	0.1 ~ 9.9	DMX512 / RDM	12CH x 4A - Max 48A

AQD-400-LT916-OLED

TECHNICAL

Product Code AQD-400-LT916-OLED **Modes** Dimming / CT / RGB / RGBW **Output Power** (0 ~ 36W...72W x 16CH Max. 1152W
DMX Interface 5-pin XLR, RJ45, Green Terminal **Grey Level** 8 Bit (256 levels) / 16 Bit (65536 levels) **Photoelectric Isolation** Yes
Protection Short Circuit / Over Load **Warranty** 2 Year Aqualux Warranty

Product Code	Input Voltage	Dimming Curve	Input Signal	Load
AQD-400-LT916-OLED	12 ~ 24V DC	0.1 ~ 9.9	DMX512 / RDM	16CH x 3A - Max 48A

AQD-400-LT924-OLED

TECHNICAL

Product Code AQD-400-LT924-OLED **Modes** Dimming / CT / RGB **Output Power** (0 ~ 36W...72W x 24CH Max. 1728W)
DMX Interface 3-pin XLR, 5-pin XLR, RJ45, Green Terminal **Grey Level** 8 Bit (256 levels) / 16 Bit (65536 levels)
Photoelectric Isolation Yes **Protection** Short Circuit / Over Load **Warranty**

Product Code	Input Voltage	Dimming Curve	Input Signal	Load
AQD-400-LT924-OLED	12 ~ 24V DC	0.1 ~ 9.9	DMX512 / RDM	24CH x 43 - Max 72A

2Y

AQD-400-LT932-OLED

TECHNICAL

Product Code AQD-400-LT932-OLED **Modes** Dimming / CT / RGB / RGBW **Output Power** (0 ~ 36W...72W x 32CH Max. 2304W)
DMX Interface XLR-3, WLR-5, RJ45, Green Terminal **Grey Level** 8 Bit (256 levels) / 16 Bit (65536 levels) **Photoelectric Isolation** Yes
Protection Short Circuit / Over Load **Warranty** 2 Year Aqualux Warranty

Product Code	Input Voltage	Dimming Curve	Input Signal	Load
AQD-400-LT932-OLED	12 ~ 24V DC	0.1 ~ 9.9	DMX512 / RDM	32CH x 3A - Max 96A

2Y

"Success in any endeavor requires single-minded attention to detail and total concentration".

- Willie Sutton (aka, Slick Willie, the famous bank robber).

The Glossary of Lighting Terms

Luminous Intensity (candela, cd)

1 cd = 1 lm / sr.

Luminous intensity is the light emitted in a given direction by a source. It is measured in candela (cd). The candela is an SI base unit from which other lighting related units are derived. The candela is defined as "the luminous intensity, in a given direction, of a source that emits monochromatic radiation of frequency 540 x 1012 Hz and that has a radiant intensity in that direction of 1⁄683 W per steradian."

Luminous Flux (lumen, lm)

1 lm = 1cd . 1 sr

Luminous flux is the total amount of light emitted from a source in all directions. It can be used to approximate the "brightness" of a source, given that it is an average of the visible portion of the spectra emitted by a light source weighted by a function known as 'v-lambda' that describes the human visual systems sensitivity to light of different wavelengths. The lumen is a derived unit defined as 1 candela emitted in 1 unit solid angle, or steradian.

Radiant Flux (W)

The radiant flux of a light source is a measure of the total power emitted by a source across the entire electromagnetic spectrum, including non-visible portions such as UV and IR. In lighting, radiant flux is used in order to determine the luminous efficacy of a light source.

Luminous Efficacy (lm/W)

The luminous efficacy of a light source is determined by dividing the luminous flux by the radiant flux. The resulting fraction or coefficient describes the degree to which a source emits radiation in the visible or 'useful' part of the spectrum for lighting purposes. Energy emitted in wavelengths outside the visible portion of the spectrum reduces the overall luminous efficacy of a light source.

Illuminance (lux, lx)

1 lx = 1 lm/m2

Illuminance is the light incident on the surface of a plane. It is a derivative unit where 1 lux = 1 lumen spread over 1 square meter. Illuminance can be further classified as perpendicular or horizontal illuminance, when needing to differentiate in the analysis of a lit environment. The inverse square law can be used to calculate the lux incident on a plane with a known source intensity and distance.

Luminance (cd/m2)

Luminance is the light emitted from or reflected from a surface and approximates the brightness. It is dependant on the luminance of incident light and the reflectance of the surface. It is also commonly used to measure the brightness of a monitor or display.

Color Rendering

The colour rendering ability of a light source is the degree to which the source alters the appearance of an illuminated object relative to the appearance of the object under a reference illuminant. The most commonly used system for measuring this is the Colour Rendering Index (CRI). A series of coloured patches are evaluated under the source illuminant and an average calculated and indexed to a score (Ra) out of 100. Although in widespread use, there are several issues with the CRI system. An improved standard is TM-30 which is now available.

CCT

The colour temperature of a light source is a measure used to describe the appearance of a white-light source. 'Cool' sources are said to have a higher CCT (above 5000K) whilst 'Warm' sources have lower temperatures (below 3000K). It it referred to as correlated colour temperature because the appearance of the light source is being compared to that of an 'ideal' black-body radiator with a similar surface temperature measured in kelvin (K).

Beam Angle (FWHM)

Full Width Half Maximum (FWHM) is an expression often found in the specification of LED optical systems. It refers to the width of the beam where the intensity is 50% of the maximum. This is typically measured by a goniophotometer during standard photometric testing. Some manufacturers may use different systems for specifying optical beam performance.

Voltage Drop

Voltage drop in landscape lighting is the degree to which the starting voltage decreases over a given length of cable as a function of both the current load (A) and the resistance (Ω) of the cable. If the proper cable is not selected, voltage drop can produce faults such as low output or flickering lights. Selecting luminaires with the Aqualux MultiVoltage™ internal driver and using a 24V power supply can mitigate many of these issues, allowing for cheaper and more flexible installation.

LM-80

The LM-80 standard is the IESNA approved method for determing lumen maintenance of LED light sources, e.g. how quickly the light output of an LED source degrades over time. It deals with actual measurements only.

TM-21

TM-21 is a way of taking LM-80 data and making useful extrapolations in order to calculate longer LED lifetimes, given that testing for more than 10,000 hours is impractical. It is the TM-21 method that lets LED manufacturers determined the L70 and L80 lifetime expectancies of their LEDs.

TM-30

TM-30 is the official replacement for the previous system (CRI) of determining the ability of a light source to accurately render colour in comparison to a reference source. Although not widely spread, TM-30 measurement is expected to be the future of CRI standards.

LM-79

The LM-79 test report provides details about the performance of a total luminaire package, including wall-to-lumen efficacy, luminous flux, luminous intensity distribution and CCT / CRI details. It is the most common "lighting test report" available for many light fittings.

IES File

An IES file is a digital representation of the zonal luminous intensity distribution of a light source. This file can be used by lighting software to accurately render the spread of light from a source to determine if the fitting provides the required illumination.

Integrating Sphere

An integrating sphere is a device used to measure to total luminous flux of a source. Comprised of a spherical housing the inner surface is coated with a highly diffuse paint. When a light is shone in through the aperture, the internal surface "integrates" the light into an average which a calibrated sensor can then use to determine the total flux.

SPD

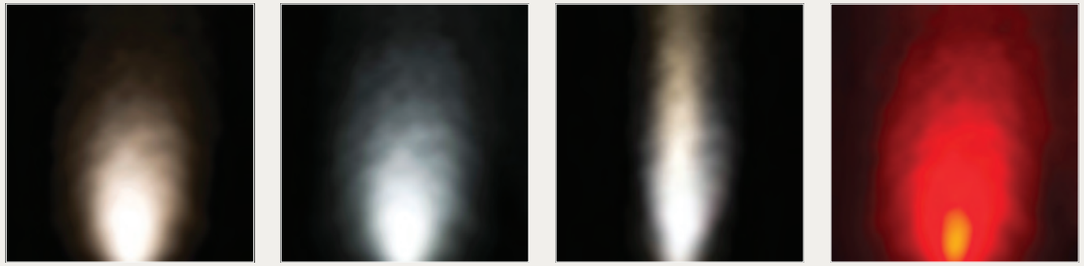
The Spectral Power Distribution "SPD" of a source represents the distribution of the radiant power throughout the visible spectrum. Usually defined in 5nm increments it can be used to determine the luminous efficacy of a light source and it's colour rendering properties.

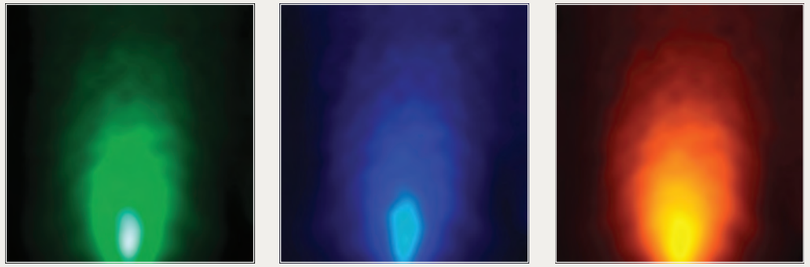
Aqualux LED Lamps

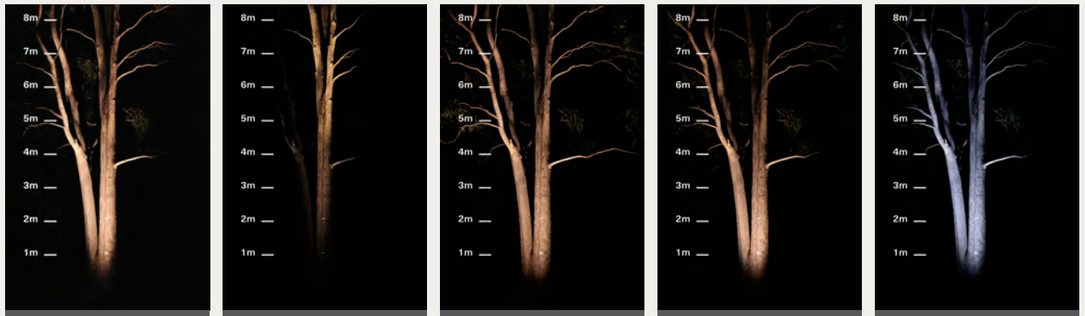
A complete range designed for landscape lighting

~ True MR16 GX5.3 Form, Fits most MR16 / GX5.3 Luminaires.
~ 4W High-Power LED technology, thermally optimised for enclosed fittings.
~ 3000K / 5700K / Amber / Red / Green / Blue for Lighting design flexibility.
~ 12 ~ 24V AC/DC MultiVoltage™ for ultimate installation flexability.
~ New ultra-spot 10D model for highlighting columns, trees and features.

Product Code	CCT / Color		Lumens	Power	Beam	Voltage	Form
AGL-250-30X38	3000K		250lm	4W	38°		
AGL-550-30X36	3000K		550lm	6W	36°		
AGL-250-55X38	5500K		250lm	4W	38°		
AGL-250-30X60	3000K		235lm	4W	60°		
AGL-550-30X60	3000K		525lm	6W	60°	12~24V AC/DC	GX5.3 Base
AGL-250-30X10	3000K		235lm	4W	10°		MR16 50 x 47mm
AGL-250-RDX38	Red	627nm	-	4W	38°		
AGL-250-GNX38	Green	530nm	-	4W	38°		
AGL-250-BUX38	Blue	470nm	-	4W	38°		
AGL-250-AMX38	Amber	590nm	-	4W	38°		







AGL-250 - 3000k
38° beam angle

AGL-250 - 3000k
10° beam angle

AGL-250 - 3000k
60° beam angle

AGL-550 - 3000k
36° beam angle

AGL-250 - 5500k
36° beam angle

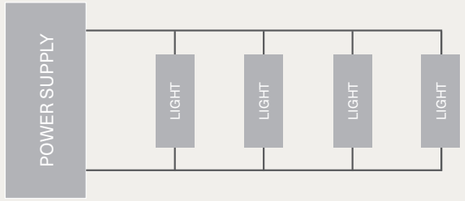
Specifications subject to change, always check website for the latest details.

Specifications subject to change, always check website for the latest details.

Wiring Materials and Corrosion

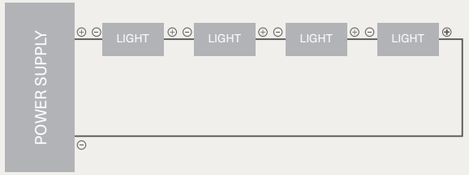
Parallel Wiring

All Aqualux LED luminaires are designed to be wired in parallel. This is the most common electrical wiring approach used for standard residential & commercial installations.



Series Wiring

For systems where internal drivers have been removed in order to provide dimming functionality series wiring is required, alongwith a Constant Current PSU.



Aluminium (6063)

Aluminium can be grouped into two different categories with respect to outdoor lighting - Machined or Cast. Machined, 6000-series aluminum is a superior alloy and can be effectively anodized, a process which integrates a layer of extra-hard aluminium oxide into the surface of the metal and protects against corrosion.

~ Durable material (yacht masts, rock-climbing hardware etc).
~ Minimal maintainence / good thermal conductivity.
~ Variety of colours available.

Brass

An alloy of tin & copper, brass is a material in common use for a wide variety of outdoor light fittings. Highly resistant to corrosion, brass will oxidize lightly over time but will generally not degrade structurally even in highly corrosive environments. Most brass fittings are generally cast and then machined.

~ Very durable material.
~ Available in different surface finishes.

Copper

Copper is a popular option for more traditional settings and will naturally oxidize over time, turning a dark green colour as the metal reacts with oxygen in the air, unless it is continuously polished. Copper is one of the most expensive materials used in the construction of light fittings but also one of the most enduring.

~ Copper is a traditional look, will age naturally.
~ Will last the longest with minimal maintainence.
~ Variety of surface finishes available.

Stainless Steel

Stainless Steel is a popular choice for luminaire construction. Featuring resistance to corrosion, Stainless Steel for luminaire construction comes in two common grades, 304 & 316 ("Marine Grade"). Stainless Steel must be maintained in order for it to retain it's "stainless" appearance. Tea staining, dirt, salt and even rust can build up on any type of "Stainless" fitting unless it is properly maintained by wiping it down every few months with a damp cloth.

~ Resonably durable material.
~ Requires maintainence to avoid tea-staining.
~ Can be electro-polished to improve corrosion resistance.

Corrosion Control - Galvanic Table

The Galvanic Table lists metals in the order of their relative activity in sea water environment. The list begins with the more active (anodic) metal and proceeds down the to the least active (cathodic) metal of the galvanic series.

Galvanic series relationships are useful as a guide for selecting metals to be joined, will help the selection of metals having minimal tendency to interact galvanically, or will indicate the need or degree of protection to be applied to lessen the expected potential interactions.

Generally, the closer one metal is to another in the series, the more compatible they will be, i.e., the galvanic effects will be minimal. Conversely, the farther one metal is from another, the greater the corrosion will be.

Active (Anodic)	
1. Magnesium	
2. Mg alloy AZ-31B	
3. Mg alloy HK-31A	
4. Zinc (hot-dip, die cast, or plated)	
5. Beryllium (hot pressed)	
6. Al 7072 clad on 7075	
7. Al 2014-T3	
8. Al 1160-H14	
9. Al 7079-T6	
10. Cadmium (plated)	
11. Uranium	
12. Al 218 (die cast)	
13. Al 5052-0	
14. Al 5052-H12	
15. Al 5456-0, H353	
16. Al 5052-H32	
17. Al 1100-0	
18. Al 3003-H25	
19. Al 6061-T6	
20. Al A360 (die cast)	
21. Al 7075-T6	
22. Al 6061-0	
23. Indium	
24. Al 2014-0	
25. Al 2024-T4	
26. Al 5052-H16	
27. Tin (plated)	
28. Stainless steel 430 (active)	
29. Lead	
30. Steel 1010	
31. Iron (cast)	
32. Stainless steel 410 (active)	
33. Copper (plated, cast, or wrought)	
34. Nickel (plated)	
35. Chromium (Plated)	
36. Tantalum	
37. AM350 (active)	
38. Stainless steel 310 (active)	
39. Stainless steel 301 (active)	
40. Stainless steel 304 (active)	
41. Stainless steel 430 (active)	
42. Stainless steel 410 (active)	
43. Stainless steel 17-7PH (active)	
44. Tungsten	
45. Niobium (columbium) 1% Zr	
46. Brass, Yellow, 268	
47. Uranium 8% Mo.	
48. Brass, Naval, 464	
49. Yellow Brass	
50. Muntz Metal 280	
51. Brass (plated)	
52. Nickel-silver (18% Ni)	
53. Stainless steel 316L (active)	
54. Bronze 220	
55. Copper 110	
56. Red Brass	
57. Stainless steel 347 (active)	
58. Molybdenum, Commercial pure	
59. Copper-nickel 715	
60. Admiralty brass	
61. Stainless steel 202 (active)	
62. Bronze, Phosphor 534 (B-1)	
63. Monel 400	
64. Stainless steel 201 (active)	
65. Carpenter 20 (active)	
66. Stainless steel 321 (active)	
67. Stainless steel 316 (active)	
68. Stainless steel 309 (active)	
69. Stainless steel 17-7PH (passive)	
70. Silicone Bronze 655	
71. Stainless steel 304 (passive)	
72. Stainless steel 301a (passive)	
73. Stainless steel 321 (passive)	
74. Stainless steel 201 (passive)	
75. Stainless steel 286 (passive)	
76. Stainless steel 316L (passive)	
77. AM355 (active)	
78. Stainless steel 202 (passive)	
79. Carpenter 20 (passive)	
80. AM355 (passive)	
81. A286 (passive)	
82. Titanium 5Al, 2.5 Sn	
83. Titanium 13V, 11Cr, 3Al (annealed)	
84. Titanium 6Al, 4V (solution treated and aged)	
85. Titanium 6Al, 4V (anneal)	
86. Titanium 8Mn	
87. Titanium 13V, 11Cr 3Al (heat treated and aged)	
88. Titanium 75A	
89. AM350 (passive)	
90. Silver	
91. Gold	
92. Graphite	
End - Noble (Less Active, Cathodic)	

IP/IK Ratings and CCT Guide

IP Ratings

The IP (Ingress Protection) rating system provides a means of classifying the degrees of protection from foreign bodies and liquids afforded by electrical equipment and enclosures. The degrees of protection against the ingress of foreign bodies and liquids are indicated by the first two numerals as detailed in the table below.

1ST NUMBER	
0	No Protection
1	Protected against ingress of objects => 52mm in diameter.
2	Protected against ingress of objects => 12.5mm in diameter.
3	Protected against ingress of objects => 2.5mm in diameter.
4	Protected against ingress of objects => 1mm in diameter.
5	Dust Protected
6	Dust Tight

	2ND NUMBER
0	No Protection
1	Protected against vertically falling drops of water.
2	Protected against falling drops of water, when enclosure tilted 15 degrees.
3	Protected against spraying water.
4	Protected against splashing water.
5	Protected against water jets.
6	Protected against powerful water jets.
7	Protected against the effects of temporary immersion in water.
8	Protected against the effects of continous immersion in water.

IK Ratings

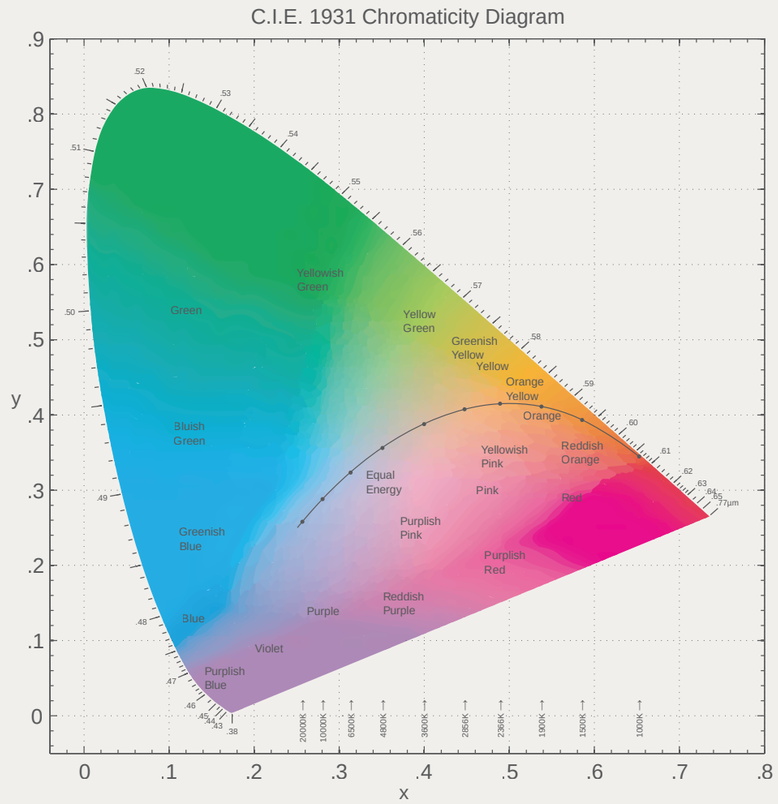
The IK rating system was introduced in October 1995 as EN62262. It describes the degree to which an electrical enclosure can protect the internal equipment from the effects of mechanical impact.

IK00	**Not protected**
IK01	**Protected against 0.14 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 56 mm above impacted surface.
IK02	**Protected against 0.2 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 80 mm above impacted surface.
IK03	**Protected against 0.35 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 140 mm above impacted surface.
IK04	**Protected against 0.5 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 200 mm above impacted surface.
IK05	**Protected against 0.7 joules impact.** E quivalent to impact of 0.25 kg mass dropped from 280 mm above impacted surface.
IK06	**Protected against 1 joules impact.** Equivalent to impact of 0.25 kg mass dropped from 400 mm above impacted surface.
IK07	**Protected against 2 joules impact.** Equivalent to impact of 0.5 kg mass dropped from 400 mm above impacted surface.
IK08	**Protected against 5 joules impact.** Equivalent to impact of 1.7 kg mass dropped from 300 mm above impacted surface.
IK09	**Protected against 10 joules impact.** Equivalent to impact of 5 kg mass dropped from 200 mm above impacted surface.
IK10	**Protected against 20 joules impact.** Equivalent to impact of 5 kg mass dropped from 400 mm above impacted surface.

CCT - Correlated Colour Temperature

Color Temperature is the chomacity of a light source as determined by it's position on an imaginary line drawn through a colour space. This line is often referred to as a 'blackbody locus' , as it is the locus (line) resulting from graphing the chromacity of a perfect blackbody radiator as it changes temperature. In general, "hotter" CCT's appear "cooler/bluer" whilst "colder" CCT's appear "warmer/more red".

CCT	Example
2000°	Gaslight
2470 °	15 watt incandescent bulb
2565°	60 watt incandescent bulb
2665°	100 watt incandescent bulb
2755°	500 watt incandescent bulb
2900°	500 watt Krypton bulb
3100°	Projector type filament bulb
3250°	Photo Flood
3400°	Halogen
3900°	Carbon arc
4200°	Moonlight
4700°	Industrial smog
5100°	Hazy weather
5500°	Sun 30° above horizon
6100°	Sun 50° above horizon
6700°	Electronic Flash
7400°	Overcast sky
8300°	Foggy weather
30,000°	Blue sky



The International Commission on Illumination - commonly abbreviated as CIE.

Aqualux Warranty September 2021

Aqualux Limited Warranty Information

Aqualux sources, designs, and manufactures advanced landscape lighting of many different varieties. We utilise the highest-grade components manufactured inhouse as well as sourced from around the globe and assembled in our quality-controlled Sydney, Australia facility.

From time to time, for a variety of possible reasons, our products may experience an issue after installation. This page details the various warranties our products carry, the causes of product failure that we have experienced over time, and the steps necessary to make a warranty claim should that be necessary.

Fit-for-Purpose & Installation Requirements

All warranties offered in addition to the statutory requirement of 1 Year are done so on the condition that Aqualux lighting products are fit-for-purpose and installed professionally by qualified persons and that all guidelines and requirements are followed.

Fit-for-purpose in this context refers to the intended application our products are designed for which is residential and commercial garden & landscaping environments. Products not specifically designated IP68 are not fit for submersion, either intended or accidental.

Remote, Difficult & Unusual Installations

Where Aqualux products are installed in unusual, remote, or difficult to access locations and environments, this is done so at the end user's risk. Where warranty issues arise, Aqualux is limited in its liability to the cost of repairing or replacing the product only.

Examples of remote & unusual installations include (but are not limited to) jobs that require scissor lists, traffic management, significant labor, or the removal of paneling or other secondary installation materials.
If you are uncertain, please contact us to discuss
1300-662-644 / sales@aqualux.com.au

AQS Series Strip Lighting

Please pay particular attention to our fit-for-purpose and unusual installation warranty notes when designing with AQS LED Strip Lighting.
Whilst LED strip lighting allows for unique and previously impossible lighting effects to be achieved, it is still a sensitive electronic product that is potentially subject to failure through a variety of modes including (and most often) improper handling during installation.

All Aqualux AQS products are tested before they leave our factory. We strongly advise customers to test the product prior to installation. Aqualux is not liable for any costs associated with accessing or replacing the AQS-Series strip.

Warranty Claims Procedure

To make a claim for service to repair or replace a product under an Aqualux warranty, contact the original reseller and/or installer of the product.
They will generally be able to process the claim on your behalf. If your original reseller is no longer in business or you are not sure who it may have been, please contact us directly with a photo of your product and a summary of the issue.
Aqualux may elect to repair or replace your product depending on the nature of the fault and product serviceability.

Cable Termination Requirements

Cable terminations and joins must be IP-rated for this warranty to apply. Joins and connections that are not fit-for-purpose or that are manifestly unsuitable will not be serviced by Aqualux and any product failure arising from such terminations will not be claimable under this warranty.

Please refer to the cable join / termination guide available on our website for more informatoin.

Quick Connect Cables

Where a product has a quick connect cable, anti-siphon device, or other feature(s) it/they should never be removed. Doing so will void your warranty and in the event of product, failure makes the job of repair/replacement unnecessarily more difficult and costly. If you are concerned one of these features may impact your ability to install our products contact us prior to your order placement.

The Fine Print

Aqualux Lighting is a brand wholly owned by Telectran International. Telectran International Pty. Ltd. ("Telectran") warrants to the purchaser of products described herein that they be free from defects in material and workmanship for a period commencing at the date of purchase and expiring at the end of the period specified (the "warranty period").

No other warranty, whether express or implied, including any warranty of merchantability or fitness for a particular purpose, shall exist in connection with the sale or use of such products.

Defects that are, in the sole judgment of Telectran, the result of an accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, unauthorized repair, modification, or acts of God will not be covered by this warranty.

Telectran shall not be liable for incidental or consequential damages, including but not limited to labour costs or lost profits resulting from the use of or inability to use the goods or from the goods being incorporated in or becoming a component of any other product. Without limiting the generality of the foregoing, Telectran will not be responsible for labour costs involved in the removal of goods or the installation of replacement goods.

If a problem develops with a product during the warranty period call or email us. We may be able to help you identify specific problems and possibly solve them before the unit is returned to us for repair or replacement. In any case, ***DO NOT RETURN ANY GOODS WITHOUT OBTAINING A RETURN NUMBER*** and instructions from us. Telectran cannot be responsible for damage due to shipping or improper packaging when returning goods. Please see our returns policy for further information.

Upon receipt of a claim, Telectran shall inspect the part or parts claimed to be defective, and we shall repair, or at our discretion, replace, free of charge, any part or parts which we determine to have been defective.

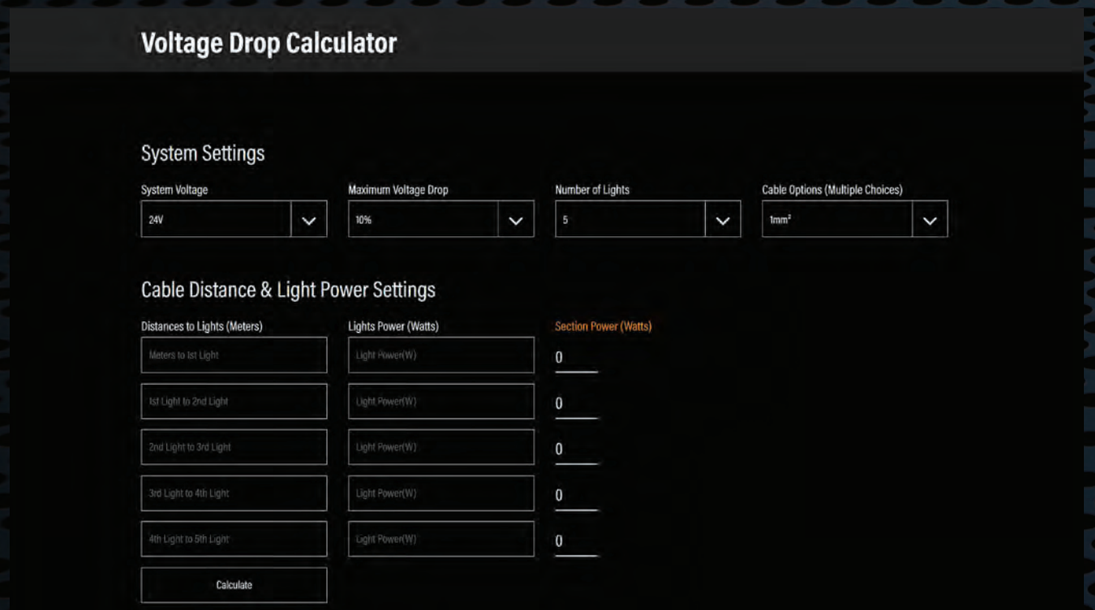
Applicable Warranty Periods

If you cannot find your product below, please contact us. Warranty periods are subject to change without notice - this will not affect an existing purchase.

Product code or family	Warranty (years)	Product code or family	Warranty (years)
AQL-450, 451 & 452 " Turbo"	5 years	AQL-455 "Eco"	2 years
AQL-400 to AQL-420	5 years	AQL-510, 520, 530, 540, 565 & AUL-03 AUL-04	7 years
Lumena / Lumena Pro Range	7 years	AQL-600 Range	3 years
AQL-910, 911, 912 & 913	3 years	AQL-931 & AQL-933	5 years
AQA Artisan Range	10 years	Festoon and Fairy Lights	3 years
AQS Strip Light	3 years	Aquatran AQO AC	10 years
Aquatran AQD DC	5 years	AGL Globes	3 years
Other AQD Control Gear	3 years		

No dipping

Voltage drop can be measured in a circuit with a standard Multimeter. Better still, the voltage drop can be calculated in advance using our online Voltage Drop Calculator.

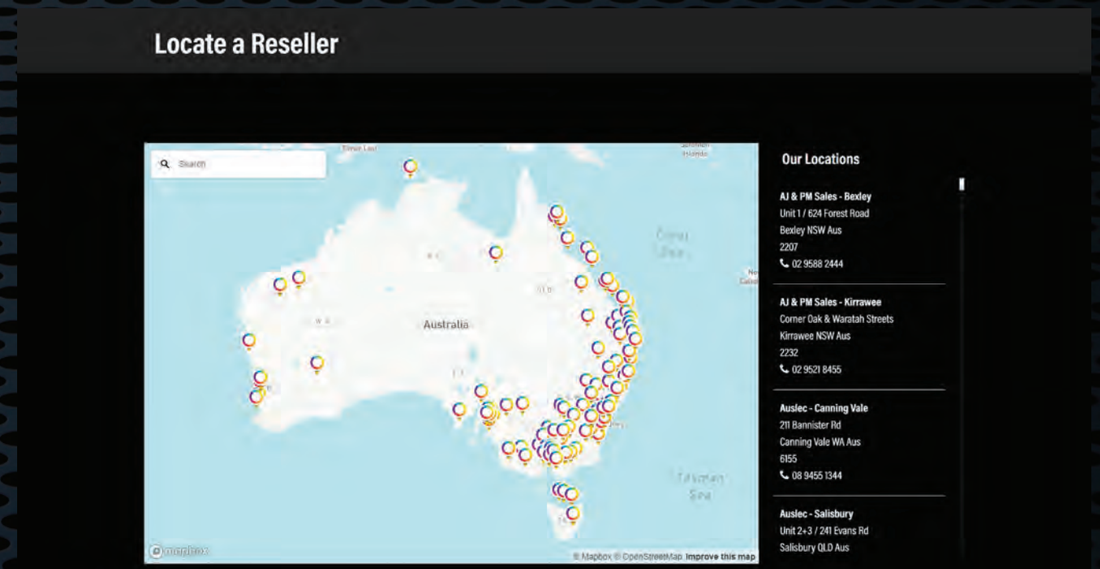


Ohm's Law

An important mathematical formula that electricians and physicists use to determine certain measurements in a given circuit. The formula is V = I x R where V is the voltage, measured in volts, I is the amount of current measured in amps or amperage and R is the resistance, measured in ohms.

We're everywhere

While we may not sell direct to the public, that doesn't mean our fittings and expertise are not readily available. Call our friendly staff who can answer your technical questions and direct you to your nearest reseller.

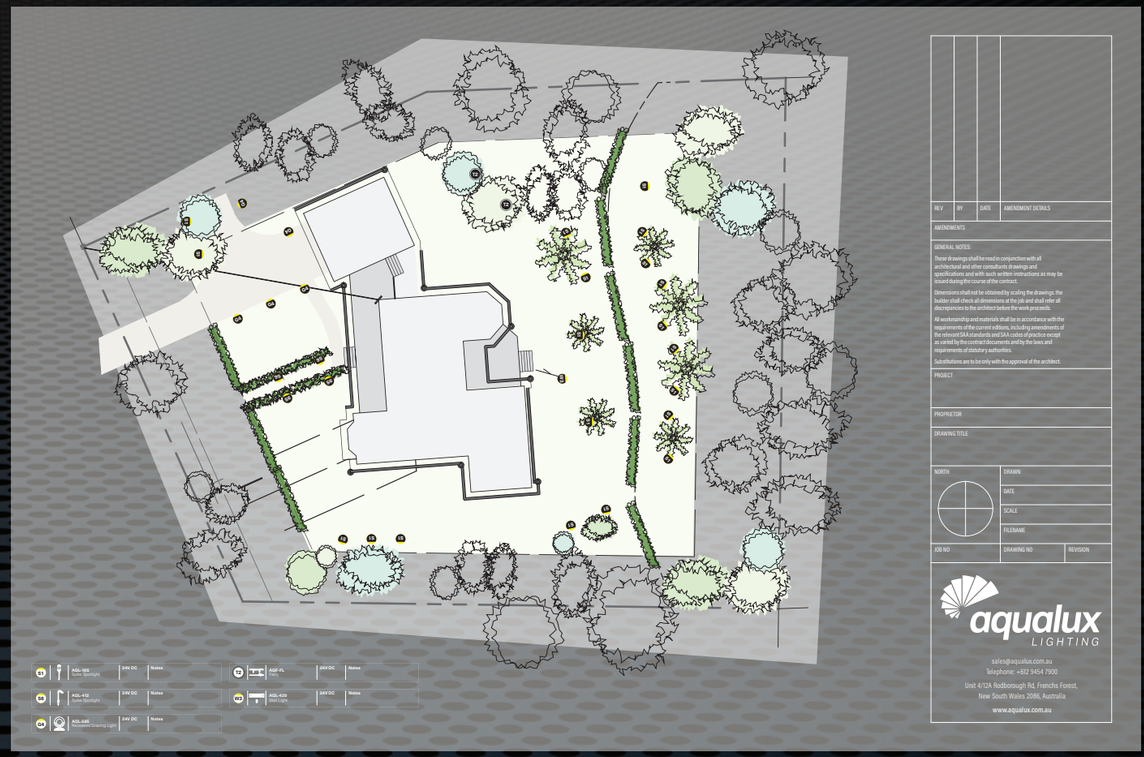


Contact your local Sales Representative

Clinton Black	Steve Delaney	Phillip Martin	Tim Griffin	Ivan Zechel
QLD / NT	**VIC / TAS / WA**	**VIC**	**NSW / ACT**	**Head Office**
0436 236 961	0410 641 120	0426 872 875	0412 676 833	02 9454 7900

We are planners

Proper planning of an outdoor lighting project is essential in order to maximise success and to minimise on site installation and wiring headaches. Aqualux provides planning assistance free to our customers and their clients who are looking to utilise our products. Tap our in-depth product knowledge and experience in landscape lighting to create a winning plan for your next project.



Our Iconic planning list

B1	AQL-130 Bollard	24V DC	Notes	
B2	AQL-131 Bollard	24V DC	Notes	
B3	AQL-135 Bollard	24V DC	Notes	
B4	AQL-136 Bollard	24V DC	Notes	
B5	AQL-416 Bollard	24V DC	Notes	
F1	AQL-980 Floodlight	24V DC	Notes	
F2	AQL-910 Floodlight	24V DC	Notes	
F3	AQL-911 Floodlight	24V DC	Notes	
F4	AQL-912 Floodlight	24V DC	Notes	
F5	AQL-913 Floodlight	24V DC	Notes	
N1	AQS-400 Neon Flex	Layout	24V DC	Notes
N2	AQS-500 Neon Flex	Layout	24V DC	Notes
N3	AQS-401 Neon Flex	Layout	24V DC	Notes
N4	AQS-505 Neon Flex	Layout	24V DC	Notes
N5	AQS-510 Neon Flex	Layout	24V DC	Notes
G1	AQL-163 Recessed Grazing Light	24V DC	Notes	
G2	AQL-165 Recessed Grazing Light	24V DC	Notes	
G3	AQL-166 Recessed Grazing Light	24V DC	Notes	
G4	AQL-565 Recessed Grazing Light	24V DC	Notes	
U1	AQL-155 Recessed Uplight	24V DC	Notes	
U2	AQL-195 Recessed Uplight	24V DC	Notes	
U3	AQL-157 Recessed Uplight	24V DC	Notes	
U4	AQL-158 Recessed Uplight	24V DC	Notes	
U5	AQL-530 Recessed Uplight	24V DC	Notes	
P1	AQL-451 Spike Pathlight	24V DC	Notes	
P2	AQL-409 Spike Pathlight	24V DC	Notes	
P3	AQL-410 Spike Pathlight	24V DC	Notes	
P4	AQL-414 Spike Pathlight	24V DC	Notes	
S1	AQL-105 Spike Spotlight	24V DC	Notes	
S2	AQL-115 Spike Spotlight	24V DC	Notes	
S3	AQL-132 Spike Spotlight	24V DC	Notes	
S4	AQL-400 Spike Spotlight	24V DC	Notes	
S5	AQL-411 Spike Spotlight	24V DC	Notes	
S6	AQL-412 Spike Spotlight	24V DC	Notes	
S7	AQL-413 Spike Spotlight	24V DC	Notes	
S8	AQL-450 Spike Spotlight	24V DC	Notes	
S9	AQL-503 Spike Spotlight	24V DC	Notes	
D1	AQL-175 Surface Downlight	24V DC	Notes	
Q1	AQL-404 Surface Pathlight	24V DC	Notes	
Q2	AQL-406 Surface Pathlight	24V DC	Notes	
Q3	AQL-407 Surface Pathlight	24V DC	Notes	
Q4	AQL-408 Surface Pathlight	24V DC	Notes	
R1	AQL-540 Surface Spotlight	24V DC	Notes	
R2	AQL-180 Surface Spotlight	24V DC	Notes	
R3	AQL-401 Surface Spotlight	24V DC	Notes	
R4	AQL-402 Surface Spotlight	24V DC	Notes	
R5	AQL-403 Surface Spotlight	24V DC	Notes	
R6	AQL-405 Surface Spotlight	24V DC	Notes	
R7	AQL-415 Surface Spotlight	24V DC	Notes	
W0	AQL-417 Wall Light	24V DC	Notes	
W1	AQL-418 Wall Light	24V DC	Notes	
W2	AQL-419 Wall Light	24V DC	Notes	
W3	AQL-420 Wall Light	24V DC	Notes	
W4	AQL-510 Wall Light	24V DC	Notes	
W5	AQL-520 Wall Light	24V DC	Notes	
W6	AQL-600 Wall Light	240V AC	Notes	
W7	AQL-601 Wall Light	240V AC	Notes	
W8	AQL-602 Wall Light	240V AC	Notes	
W9	AQL-603 Wall Light	240V AC	Notes	
W10	AQA-101 Wall Light	24V DC	Notes	
W11	AQA-102 Wall Light	24V DC	Notes	
S9	AQL-503 Spike Spotlight	24V DC	Notes	
D1	AQL-175 Surface Downlight	24V DC	Notes	
D2	AQL-176 Surface Downlight	24V DC	Notes	
1	Switch One	Layout	Location	Notes
2	Switch Two	Layout	Location	Notes
3	Switch Three	Layout	Location	Notes
4	Switch Four	Layout	Location	Notes
5	Switch Five	Layout	Location	Notes
6	Switch Six	Layout	Location	Notes
7	Switch Seven	Layout	Location	Notes
	Switch Eight	Layout	Location	Notes
9	Switch Nine	Layout	Location	Notes
10	Switch Ten	Layout	Location	Notes
11	Switch Eleven	Layout	Location	Notes

Creating the Legend

The new Aqualux 'AQL' product code is created by choosing options directly related to your fitting. Codes are automatically generated using our **'Configure order code'** filter system and includes a downloadable datasheet, which can be found at www.aqualux.com.au

Note: Not all fittings come with every variant displayed here, please check the Aqualux website for product variations

AQL-XXX-AA-BCCCDDEEF

CCC	Watts
001	1W
002	2W
003	3W
004	4W
006	6W
007	7W
008	8W
009	9W
010	10W
021	21W
050	50W
100	100W
200	200W
300	300W
400	400W
500	500W
600	600W
800	800W

AA	Material	Finish
A0	Aluminium	Custom
A1	Aluminium	Satin Chrome
A2	Aluminium	Black
A3	Aluminium	Medium Bronze
A4	Aluminium	Venerable Silver
A8	Aluminium	White
B0	Brass	Custom
B1	Brass	Brushed Chrome
B2	Brass	Black
B3	Brass	Aged Brass
B4	Brass	Venerable Silver
B5	Brass	Copper
B6	Brass	Natural Brass
B7	Brass	Bronze
B8	Brass	White
C0	Copper	Custom
C1	Copper	Natural Copper
C2	Copper	Black
S0	Stainless 316/304	Custom
S1	Stainless 316	Natural
S2	Stainless 304	Natural
S3	Stainless 316	Black

B	Input Voltage	Dimming	Conductors	Polarity
X	12–24V AC / 24V DC	3-Wire PWM / Non-dimming (as indicated)	2 (Power)	No
D	24V AC	TRIAC / Phase Cut Dimming	2 (Power)	No
C	Constant Current	Control Gear Dependant (DALI/DMX/1-10/PWM	2 (Power)	Yes
Z	24V DC	4CH PWM Dimming. Common Anode	6 (2 Power / 4 Signal PWM)	Yes
E	24V DC	PWM Dimming	2/4/5 (Power PWM)	Yes
B	24V DC	PWM Dimming. 3-Wire PWM DRV	3 (2 Power / 1 Signal PWM)	Yes
L	24V DC	DALI Dimming. Integral	4 (2 Power / 2 DALI)	Yes
M	MR 16	Lamp Dependant	2 (Power)	No
G	GU10	Lamp Dependant	2 (2 Power)	No
F	240V AC	Control Gear Dependant	3 (2 Power / 1 Earth)	No
H	24V AC / DC	PWM Dimming	2 (Power PWM)	No
J	12V DC	PWM Dimming	2 (Power)	No
K	24V DC	Non Dimming	2 (Power)	Yes

DD	White CCT
22	2200K
25	2500K
27	2700K
30	3000K
35	3500K
40	4000K
45	4500K
50	5000K
57	5700K
60	6000K
65	6500K

DD	Colour / Multi
RD	Red
GN	Green
BU	Blue
PK	Pink
AM	Amber
OR	Orange
LY	Lemon Yellow
Z0	Custom
Z1	RGB
Z2	RGBW (3000K)
Z3	RGBW (2700K)
Z4	RGBW (6500K)
Z5	DMX RGB
Z6	DMX RGBW (2700K)
Z7	RGBA (Amber)

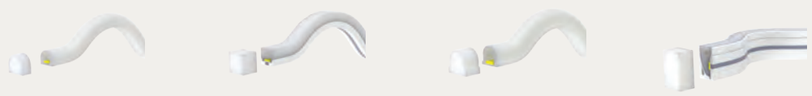
EE	Beam ° FWHM / Distribution
10	10° FWHM
15	15° FWHM
20	20° FWHM
25	25° FWHM
30	30° FWHM
35	35° FWHM
36	36° FWHM
38	38° FWHM
40	40° FWHM
50	50° FWHM
60	60° FWHM
70	70° FWHM
DF	Diffuse Frosted
DC	Diffuse Clear
A1	Asymmetric / Cutoff
A2	Asymmetric / Billie Lens
A3	Wall Wash / Rita
A4	Asymmetric / Emily Lens
01	Oval 25x50°

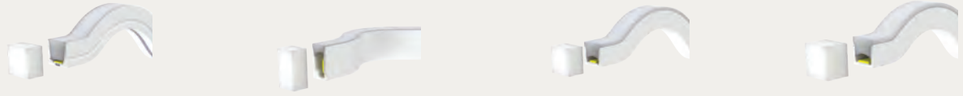
F	Termination Style
S	Standard Cable (Varies by Product)
Q	AqualuxPLUS QuickConnect
T	Terminal Block

Variations are subject to change without notice.

Neon Flex Feature Guide

With so much flexibility, Neon Flex not only bends to your needs, it comes with a mind boggling number of options. To help choose the right Neon Flex for the project, we've put together a simplified guide.





	AQS-400	AQS-401	AQS-410	AQS-420	AQS-421	AQS-500	AQS-505	AQS-510
Modes	**Mono**	**Mono**	**RGB**	**Mono / RGB / RGBW**	**Mono / RGBW**	**Mono / RGB / RGBW / DMX**	**Mono**	**Mono / RGB / RGBW / DMX**
Price	**$'s**	**$'s**	**$$'s**	**$$'s**	**$$'s**	**$$$'s**	**$$$'s**	**$$$'s**
Control Gear	Constant Voltage PWM	Constant Voltage PWM	Constant Voltage PWM	Constant Voltage PWM	Constant Voltage PWM / DMX	Constant Voltage PWM / DMX	Constant Voltage PWM	Constant Voltage PWM / DMX
Voltage	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Watts (per Meter)	5W / 10W Mono – –	10W - Mono – –	– – 10W RGB –	10W - Mono 10W - RGB 10W - RGBW –	15W - Mono 15W - RGBW	5W / 8W / 12W - Mono 12W - RGB 17W - RGBW 18W - DMX	10W - Mono – –	10W - Mono 13W - RGB 17W - RGBW 18W -DMX
Dimensions	10mm W x 9mm H	10mm W x 10mm H	13mm W x 12mm H	12mm W x 20mm H	16mm W x 15mm H	11.5mm W x 21mm H	13.5mm W x 13.5mm H	16.5mm W x 16.5mm H
Max Length (Single Powered Feed)	8m	10m	10m	10m - Mono / RGB / RGBW	5m - Mono / RGBW	10m - 12W Mono / RGB 15m - 5W / 8W Mono 8m - 17W RGB / 18W RGBW	10m	10m - Mono / RGB
Max Length (Double Powered Feed)	16m	20m	20m	20m - Mono / RGB / RGBW	10m - Mono / RGBW	20m - 12W Mono / RGB 30m - 5W / 8W Mono 16m - 17W RGB / 18W RGBW	20m	20m - Mono / RGB
Cut Interval	31mm	36mm	55.5mm	50mm - Mono 66mm - RGB / RGBW	50mm - Mono / RGBW	100mm - 12W Mono / RGB 167mm - 5W / 8W Mono 100mm - 17W RGBW 100mm - 18W DMX	83.30mm	83.30mm - Mono / RGB 100mm - RGBW / DMX
Bend Diameter	60mm	80mm	80mm	120mm	120mm	80mm	80mm	120mm
Bending Direction	Vertically	Vertically	Vertically	Horizontally	Vertically	Horizontally	Vertically	Vertically
IP Rating	IP65	IP65	IP65	IP65	IP67	IP68	IP68	IP68
Material	Silicone	Silicone	Silicone	Silicone	Eco PVC	Eco PVC	Eco PVC	Eco PVC
Lead Time	Stocked 5 - 7 Days	Stocked 5 - 7 Days	Stocked 5 - 7 Days	Stocked 5 - 7 (Mono) Made to Order 4 - 5 Weeks	Made to Order 5 - 7 Days	Made to Order 4 - 5 Weeks	Made to Order 4 - 5 Weeks	Made to Order 4 - 5 Weeks
Beam Angle	180°	120°	180°	120°	120°	120°	120°	120°

Specifications subject to change, always check website for the latest details.

Specifications subject to change, always check website for the latest details.

Neon Flex Feature Guide Continued

We hope you did not think we forgot the CCT options?

	AQS-400	AQS-401	AQS-410	AQS-420	AQS-421	AQS-500	AQS-505	AQS-510
CCT / Lumens	**Mono**	**Mono**	**RGB**	**Mono / RGB / RGBW**	**Mono / RGBW**	**Mono / RGB / RGBW / DMX**	**Mono**	**Mono / RGB / RGBW / DMX**
Red - Mono	–	–	–	–	–	5W-80lm / 8W-110lm	10W-140lm	10W-120lm
Green - Mono	–	–	–	–	–	5W-80lm / 12W-200lm	10W-400lm	10W-390lm
Blue - Mono	–	–	–	–	–	5W-14lm / 12W-35lm	10W-70lm	10W-60lm
Amber - Mono	–	–	–	–	–	5W-44lm / 8W-100lm	–	10W-90lm
Orange - Mono	–	–	–	–	–	5W-35lm / 8W-90lm	–	–
Lemon Yellow - Mono	–	–	–	–	–	12W-250lm	–	–
Pink - Mono	–	–	–	–	–	5W-60lm / 12W-150lm	–	–
RGB	–	–			–		–	
RGBW 2700K / DMX 2700K	–	–	–		–		–	
RGBW 3000K	–	–	–	–			–	–
RGBW 6500K	–	–	–		–		–	–
2200K - Mono	–	–	–	–	–	5W-120lm / 12W-280lm	10W-410lm	10W-360lm
2500K - Mono	–	–	–	–	–	5W-120lm / 12W-280lm	10W-410lm	10W-360lm
2700K - Mono	5W-250lm / 10W-500lm	10W-500lm	–	10W-263lm	15W-766lm	5W-120lm / 12W-280lm	10W-410lm	10W-360lm
3000K - Mono	5W-275lm / 10W-550lm	10W-550lm	–	10W-270lm	15W-748lm	5W-120lm / 12W-280lm	10W-410lm	10W-360lm
3500K - Mono	–	–	–	–	–	5W-130lm / 12W-330lm	10W-430lm	10W-370lm
4000K - Mono	5W-290lm / 10W-580lm	10W-580lm	–	10W-285lm	15W-915lm	5W-130lm / 12W-330lm	10W-430lm	10W-370lm
4500K - Mono	–	–	–	–	–	–	10W-460lm	10W-370lm
5000K - Mono	5W-300lm / 10W-600lm	10W-600lm	–	10W-290lm	15W-930lm	5W-140lm / 12W-350lm	10W-460lm	10W-400lm
5700K - Mono	–	–	–	–	–	5W-140lm / 12W-350lm	10W-460lm	10W-400lm
6000K - Mono	5W-310lm / 10W-620lm	10W-620lm	–	10W-290lm	–	–	–	–
6500K - Mono	–	–	–	–	–	5W-140lm / 12W-350lm	10W-460lm	10W-400lm
EXTRUSION								
1 Meter	✓	✓	✓	✓	✓	✓	✓	✓
2 Meter	✓	✓	✓	✓	✓	✓	✓	✓
WARRANTY								
2 Year	✓	✓	✓	–	–	–	–	–
3 Year	–	–	–	✓	✓	✓	✓	✓
5 Year	–	–	–	–	Opt	Opt	Opt	Opt

Specifications subject to change, always check website for the latest details.

Spot the difference

What you need to know with our comprehensive Spike Spot Feature Guide.

QUICK GUIDE	AQL-455	AQL-450	HYDRA - AQL-400	LUMENA - AQL-115	LUMENA - AQL-116
Price	**$'s**	**$$'s**	**$$'s**	**$$$'s**	**$$$'s**
Light Source	Integrated CREE	MR16 (included) 1	MR16	Integrated CREE	Integrated CREE
Lumens	200lms / 400lms / 600lms	250lms	250lms / 550lms	300lms / 550lms	80lms / 150lms
Power	3W / 6W / 10W	4W	4W / 6W	4W / 7W	2W
Finishes	Matt Black - Powder Coat – – –	Matt Black - Powder Coat Brushed Chrome – –	Aged Brass Brushed Chrome Matt Black - Powder Coat –	Silver Reign - Powder Coat Black Ace - Powder Coat Medium Bronze - Powder Coat Flat White - Powder Coat Venerable Silver - Powder Coat	Silver Reign - Powder Coat Black Ace - Powder Coat Medium Bronze - Powder Coat Flat White - Powder Coat Venerable Silver - Powder Coat
Material	CNC Aluminium	Cast Brass	Cast Brass	CNC Aluminium	CNC Aluminium
Lead time	Stocked	Stocked	Stocked	Stocked/10-14 Days Lead Time	Stocked/10-14 Days Lead Time
Input	1m Double Insulated 0.5mm2	Twin Core	Twin Core	Aqualux M8 / M12 QC connectors	Aqualux M8 / M12 QC connectors
CCT					
Red	–	2			
Green	–	2			
Blue	–	2			
Amber	–	2			–
2700K	–	–	–		
3000K				Standard	Standard
5700K	–	2			
RGBW	–	–	–		–
MR16	–	✓	✓	–	–
WARRANTY					
2 Year	✓	–	✓	–	–
3 Year	–	–	–	–	–
5 Year	–	✓	✓	✓	✓
OPTICAL	✓	✓	✓	✓	✓
10°	–	✓2	✓	✓	–
15°	–	–	–	–	✓
25°	–	–	–	✓	–
30°	–	–	–	–	✓
38°	✓	✓	✓	–	–
40°	–	–	–	✓	–
50°	–	–	–	–	✓
60°	–	✓2	✓	–	–
70°	–	–	–	–	✓

Specifications subject to change, always check website for the latest details.

Specifications subject to change, always check website for the latest details.

Dimming and controlling aqualux lighting

1. If you want to dim Aqualux lights but you do not already have a dimming control system, we recommend a standalone DALI solution as the preferred option. See wiring diagram 3.

2. If you already have a dimming control system, you will need to check the table on Page 2 in conjunction with the Aqualux website to determine if the Aqualux product you want to control is compatible.

The dimming capability of Aqualux lighting products is determined by the internal control gear and power source requirements of the particular product.

Selecting the right option is important if you wish to ensure compatibility with your lighting control system.

To determine Aqualux dimming compatibility, locate the control gear code 'B' in your product code.

Then refer to the table on Page 2 to determine if the product is dimmable and what external control gear or power source requirements may be needed.

AQL-XXX-AA-**B**CCCDDEEF

Code and table definitions

CONTROL GEAR (B)

Code 'B" in our product code scheme determines the input voltage, dimming capability and wiring requirements.

INPUT VOLTAGE

Refers to the voltage and current type needed to supply the light.

DIMMING

If the driver is capable of dimming, what style of dimming it is and other details.

RECOMMENDED HARDWARE

Example equipment required to operate the particular configuration and any dimming capability.

NOTES

Particular instructions directly related to the fitting and selected components.

WIRING DIAGRAMS

Overview of the electrical circuit, the relative position and arrangement of fittings and control gear.

The control and dimming of lighting products is not as straightforward as it once was with halogen or incandescent lighting. There are multiple options and methods for dimming and control of LED lights.

Once manufactured, dimming compatibility cannot be changed without returning the product to our factory for modification. Refer to the table at the end of this document for more information on dimming control systems.

While Phase-cut/TRIAC dimming systems can still work with some LED products, there are also other legacy systems such as 0-10V (developed for fluorescent lighting) and more modern digital lighting control systems such as DALI and DMX that are in many ways more suitable for LED lighting control.

Aqualux 10V PWM Dimming

Aqualux fittings with 10V PWM dimming are capable of dimming if the PWM signal wire is connected to a compatible 10V PWM source such as the DAP-04 DALI interface. See page 4 for more information.

Don't hesitate to contact us if you have any questions.

Aqualux Internal Control Gear - Dimming Reference

CODE (B)	INPUT VOLTAGE	DIMMING CAPABILITY	RECOMMENDED HARDWARE	NOTES	WIRING DIAGRAM
X	12~24V AC 24V DC. MultiVoltage.	DALI (via PWM 10V Signal Dimming) (with 3-wire products)	Requires Meanwell DAP-04 (DALI/PWM Interface). Can use standalone DALI dimmers or with DALI application controllers.	PWM Signal dimming. Requires PWM wire to be connected. No PWM = 100% Output. Single Channel 10V PWM "High Side" dimming.	**3**
D	24V AC.	TRIAC / Phase Cut Dimming	Requires AQO 24V AC Power Source. Compatible Phase Cut Dimmers include: Clipsal UDM450E, Diginet MEDM.	Dimming performance is best when load is > 80% of power supply rating.	**30**
C	Constant Current.	Control Gear Dependant (DALI/DMX/1-10/PWM)	Requires Constant Current Power Supply. Suitable power supplies include: Meanwell LCM, ELG-C and HLG-C series.	Lights must be wired in series. Circuit voltage must be kept below SELV DC maximums (120V). Dimming control options depends on the power supply.	**26**
Z	24V DC.	4CH PWM Dimming, Common Anode	Suitable control modules include LTECH T4 Modules and DMX Interfaces.	4 Channel "Low Side" PWM dimming for RGBW systems. Requires 500Hz (nominal) PWM signal source with common 24V+ anode. No PWM = 0% Output.	**7, 15, 23, 27, 28, 29**
E	24V DC.	PWM Dimming (Power)	Suitable control modules include LTECH T1 CV, AQD PWM Dimmers. Suitable power supplies include Meanwell HLG-B, Meanwell PWM drivers.	Requires PWM dimmer module or PWM dimming power supply. Power supply will also offer additional dimming methods (0-10V, DALI, DMX etc).	**7, 8, 33**
B	24V DC.	DALI / PWM (10V) Signal Dimming. (with 3-wire products)	24V DC Only (Not dimmable on AC). Utilises the Meanwell DAP-04 (DALI Interface). Can use standalone DALI dimmers or with DALI application controllers.	PWM Signal dimming. Requires PWM wire to be connected. No PWM = 100% Output. Single Channel 10V PWM "High Side" dimming.	**3**
L	24V DC.	DALI Dimming, Integral	Integrated DALI compatible LED driver. Requires 2-wire DALI signal control in addition to 24V DC power. Requires DALI application controller or standalone dimmer control unit.	Check DALI wiring regulations when used together with SELV lighting systems.	**32**
M	MR16.	Lamp Dependant.	Lamp Dependant.	Lamp Dependant.	–
G	GU10.	Lamp Dependant.	Lamp Dependant.	Lamp Dependant.	–
F	240V AC.	Control Gear Dependant.			–
H	24V AC/DC.	PWM (Power) Dimming	Suitable control modules include LTECH T1 CV, AQD PWM Dimmers. Suitable power supplies include Meanwell HLG-B dimming power supplies.	24V DC PWM Power dimming. Requires PWM dimmer module or PWM dimming power supply.	–
J	12V DC.	PWM (Power) Dimming	Suitable control modules include LTECH T1 CV, AQD PWM Dimmers. Suitable power supplies include Meanwell HLG-B dimming power supplies.	12V DC PWM Power dimming possible. Requires PWM dimmer module or PWM dimming power supply.	–
K	12V DC.	Non Dimming.			–

LED Strip and String Lighting reference guide

PRODUCT GROUP	INPUT VOLTAGE	DIMMING CAPABILITY	RECOMMENDED HARDWARE	WIRING DIAGRAM
AQS NEON FLEX AND COB STRIP **(MONO)** **AQF FESTOON** **AQF FAIRY**	24V DC	PWM (Power) Dimmable.	**DALI Dimming** - 24V DALI Compatible PSU eg. Meanwell -DA PSU - DALI Standalone Dimmer eg. AQD-400-ZEN - or integrated DALI system **Phasecut Dimming** - 24V Phasecut Compatible PSU eg. AQD-PS-PDV Series - Compatible phasecut dimmer eg. Diginet MEDM **SELV PWM Dimming** - 24V Non-dimmable PSU eg. AQD24 series - Low-voltage PWM Dimmer eg. AQD-400-T3CV Series **0-10V Dimming** - 24V 0-10V Compatible PSU eg. Meanwell HLG-B Series - 0-10V Dimming Unit eg. AQD-400-DIM-001 **DMX Dimming** - 24V Non-dimmable PSU eg. AQD24 series - DMX > PWM Interface Module eg. AQD-400-LT844 - DMX Controller	**31**
AQF FESTOON	24V AC	TRIAC / Phase Cut Dimming.	AQO 24V AC Power Supply + Compatible Phase Cut Dimmer eg. Clipsal UDM450E, Diginet MEDM	**30**
AQS NEON FLEX AND COB STRIP **(RGB/RGBW)**	24V DC	3CH / 4CH PWM (Power) Dimmable RGB/RGBW Controller Reqd.	**DMX Control** - 24V Non-dimmable PSU eg. AQD24 series - DMX > PWM Interface Module eg. AQD-400-LT844 - DMX Controller **Remote RGB/RGBW Control** - 24V Non-dimmable PSU eg. AQD24 series - Low-voltage PWM Dimmer eg. AQD-400-T3CV Series - RF Remote Control eg. AQD-400-T3/T4	**4, 6, 11, 13, 17, 19, 20, 21, 22**

CBUS Dimming

The ability of CBUS to dim LED lighting system depends on the modules available within the CBUS system and the type of dimming required by the LED driver or power supply.

Dimming with CBUS:

- Use a Phasecut CBUS dimming module with a compatible Phasecut power supply

- Use a CBUS/DALI gateway and a DAP-04 for compatability with Aqualux 10V PWM dimming.

Universal (Phasecut) Dimming Module
C-Bus DIN Rail Mounted DALI Gateway for 2 Dali NetworksItem Number: 5502DAL

CBUS / DALI Gateway
DIN Rail Mounted, Universal, 240V AC, 4 Channel, 2.5A Item Number: L5504D2UP

Technical Information

PWM (POWER) DIMMING

PWM power dimming directly modifies the output of a power supply via PWM (Pulse-width modulation). It controls how often the current is on or off hundreds of times per second.

As the human eye cannot perceive frequencies this fast, the effect is an apparantly stable variation of the output light level.

PWM power dimming can be achieved by using compatible power supplies that will require their own dimming control input. It can also be achieved by using a PWM module that sits between the power supply and lighting product and modifies the power to control the PWM dimming.

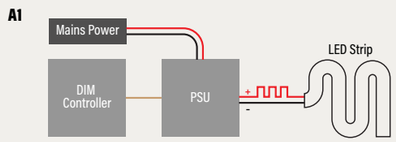
PWM Power dimming is common in LED strip lighting products and operates across any number of channels (eg. White, Tuneable White, RGB, RGBW).

The benefits of PWM power dimming are that it is relatively straightforward requiring no additional wires, that it works independent of the load rating of the power supply and that it does not require additional signal wires.

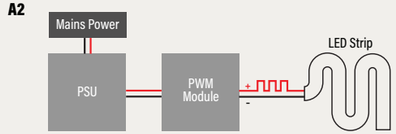
The drawbacks include that the LED forward voltage must be closely matched (linear) with the power supply voltage - Many discrete LEDs require voltages that are not common and are difficult to control in a linear fashion.

This is why PWM Power dimming is most commonly used with LED Strip lighting type products where multiple LEDs can be combined to create a 12V or 24V LED circuit.

A1



A2



PWM (SIGNAL) DIMMING

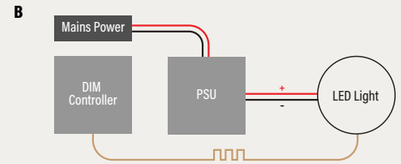
PWM Signal dimming directly controls the output current of a power supply, either an internal constant current driver inside a light fitting or an external constant current or constant voltage power source.

The driver or power supply requires a separate control signal wire that the PWM signal is delivered over. The PWM signal is then used by the driver to modify the output current to the LED.

The advantages of this approach are that multiple individual fittings can be controlled with the same dimming signal and that it operates independent of the internal LED voltage. A variety of types of fittings can be controlled in the same manner.

Many other forms of lighting control are in fact interfaces to a PWM Signal type of dimming, given that close to the LED a PWM signal of some sort will almost always be needed to modify the LED output.

B



DALI

DALI (Digital Addressable Lighting Interface) is a modern lighting control protocol. It allows each device to be individually addressed and controlled.

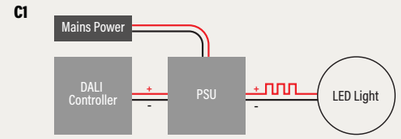
The benefits of DALI are relative ease of deployment and commissioning, with each fixture or driver assigned an address and independently controlled.

The drawbacks include the requirement for additional components such as a DALI power supply and typically a master controller. Additionally, DALI wiring rules specify that the control cables (although ELV) must be treated as 240V.

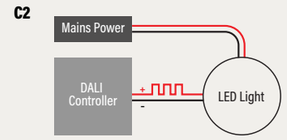
This simplifies wiring in mains powered lighting systems but may complicate requirements in SELV systems.

Aqualux fittings that are DALI compatible typically use a DALI/PWM interface to provide this control. This means that control is available down to the power supply group rather than individual fitting.

C1



C2



Technical Information

DMX512

DMX (Digital Multiplex) is a common digital protocol for the control of entertainment lighting and architectural systems.

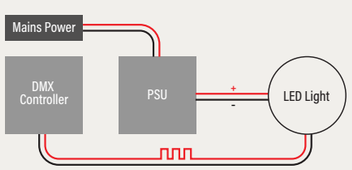
Developed initially for linking theatrical lighting and effects systems to central controllers, it has expanded to include many other functions.

DMX requires a separate set of control cables to carry the data signals from a central controller to the lighting control systems and power supplies. It can be used with both low voltage and mains lighting products as the control system is completely separate to the lighting power supply system.

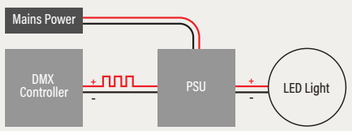
The benefits of DMX512 are that it is a widely used and well understood system with many compatible control products. Very long signal cable runs are also possible, up to 1km or more. Wireless DMX equipment is also available.

The main drawback is that DMX requires additional control equipment and adds complexity to a system beyond what is typical for residential applications. Many fittings will also require an interface module to convert the digital DMX512 signal to PWM Signal.

D1



D2



ARTNET

ArtNET is a protocol for transmitting DMX/RDM signals over Ethernet. It can make the deployment of a DMX solution a lot easier as it can utilise existing infrastructure.

PHASE CUT / TRIAC

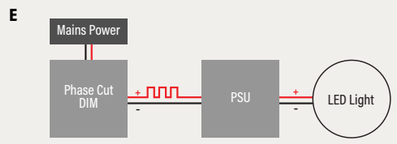
Phase cut dimming includes both TRIAC based dimming (leading edge) and trailing edge approaches.

There are also "universal" dimmers that can determine the most appropriate mode for the detected load. The benefits of phase-cut dimming are that it is simple to install and widely understood by most contractors.

The drawbacks include incompatibility with many LED products and varying performance that depends on the combination of dimmer, power supply and LED light.

Some manufacturers recommend only certain combinations of dimmers and power supply units.

E

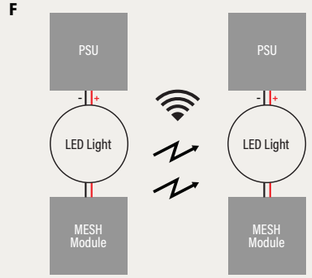


MESH NETWORKS (ZIGBEE, CASAMBI, SILVAIR)

There are a growing number of mesh network protocols intended for wireless control of lighting and other building systems. Casambi and Silvair operate using Bluetooth mesh networks, whereas Zigbee utilises its own radio communication method.

Casambi in particular is growing in popularity and Aqualux will soon be able to offer a range of options for control of fittings and strip lighting with Casambi products.

F



Keeping you grounded

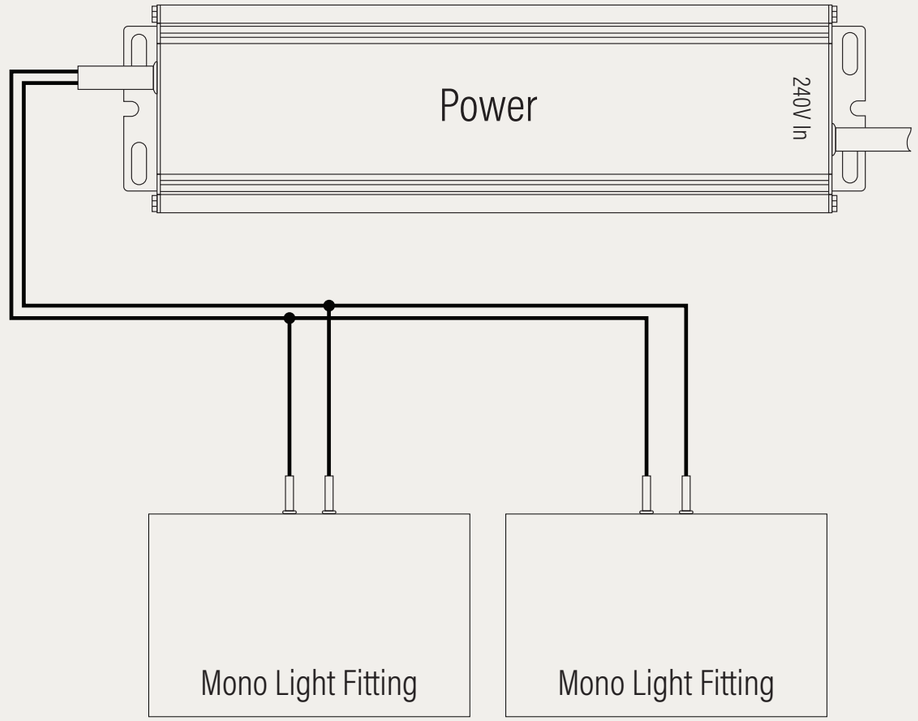
We've put together a range of wiring diagrams covering many of our easy and some of our more complicated setups.

Wiring Diagram Contents List

1	Mono - 12 ~ 24V AC - 2 Wire	**p220**
2	Mono - 24V DC - 2 Wire	**p221**
3	Mono - 24V DC - 3 Wire - DALI Dimming - Aqualux Driver	**p222**
4	RGBW - 24V DC - 6 Wire - DALI Dimming	**p223**
6	RGBW - 24V DC - 5 Wire - T4 Remote	**p224**
7	RGBW - 24V DC - 6 Wire - T4 Remote - Aqualux Driver	**p225**
8	Tunable White - 24V DC - 3 Wire - PWM Dimming - T2 Remote	**p226**
9	RGB - 24V DC - 4 Wire - PWM Dimming - T3 Remote	**p227**
12	RGBW - 24V DC - 5 Wire - WiFi 106 + F45A	**p228**
15	RGBW - 24V DC - 6 Wire - WiFi 106 + F45A	**p229**
18	RGBW - 24V DC - 5 Wire - LT904 DMX Dimming	**p230**
25	RGBW - 24V DC - 5 Wire - Dynamic Pixel DMX Dimming	**p231**
26	Mono - Constant Current - 2 Wire - 1-10V Dimming	**p232**
27	RGBW - 24V DC - 6 Wire - Casambi Connection	**p233**
28	RGBW - 24V DC - 6 Wire - DMX Dimming	**p234**
29	RGBW - 24V DC - 6 Wire - Philips Hue Connection	**p235**
30	Mono - 24V AC - 2 Wire - Phasecut Dimming	**p236**
31	Mono - 24V DC - 2 Wire - 1-10V Dimming	**p237**
32	Mono - 24V DC - 4 Wire - DALI Integrated Dimming	**p238**
33	Mono - 24V DC - 2 Wire - PWM Dimming	**p239**
35	RGBW - 12V DC - 5 Wire - Dynamic Pixel DMX Dimming	**p240**
36	Mono - 24V DC - 2 Wire - Single Ended - No Dimming	**p241**
37	Mono - 24V DC - 2 Wire - Double Ended - No Dimming	**p242**
38	Mono - 24V DC - 2 Wire - Constant Voltage - DALI Dimming	**p243**

Wiring Diagram

Mono - 12 ~ 24V AC - 2 wire



2 Fitting Example only

Wired in parallel (non polarity).

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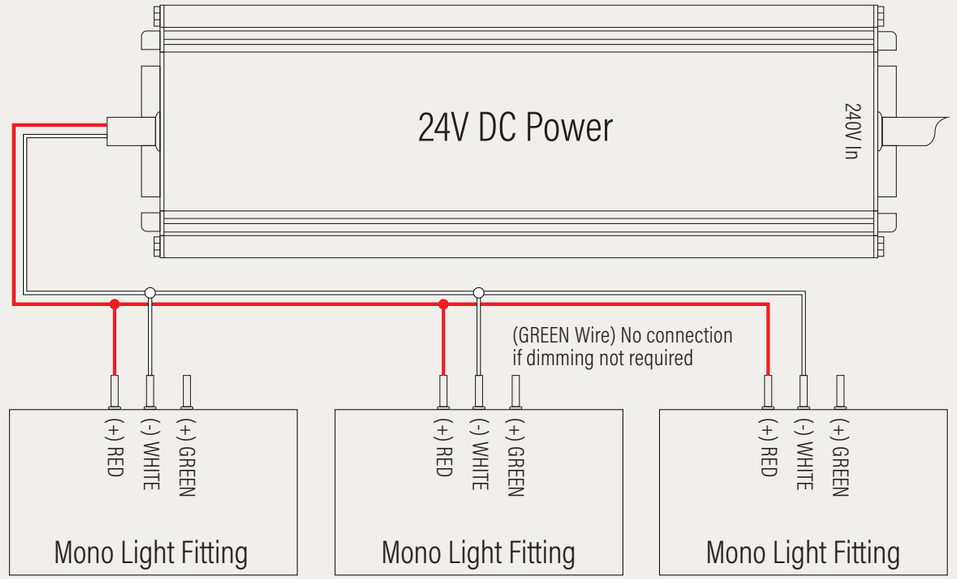
Wiring Diagram

Mono - 24V DC - 2 Wire



3 Fitting Example only

For Lumena, Lumena Pro, Pheonix and Artisan Mono fittings
with the 3 wire cable. Wired in parallel, no dimming.

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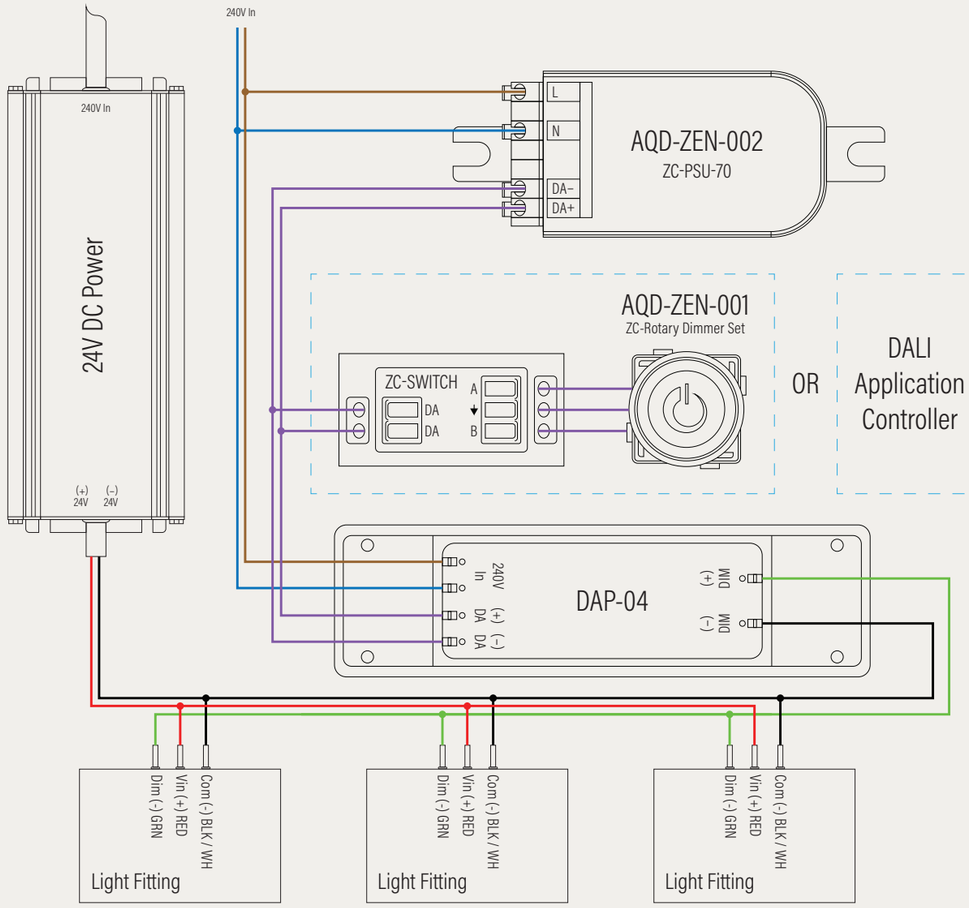
Wiring Diagram

Mono - 24V DC - 3 Wire - Dali Dimming - Aqualux Driver
Lumena, LumenaPro, Phoenix & Artisan - Mono



3 Fitting Example only

Dali dimming for mono fittings with 3 wire cable.

Recommended Hardware:
AQD-ZEN-001
AQD-ZEN-002
AQD-MW-DAP-04
AQD24-Power Supply to match your wattage

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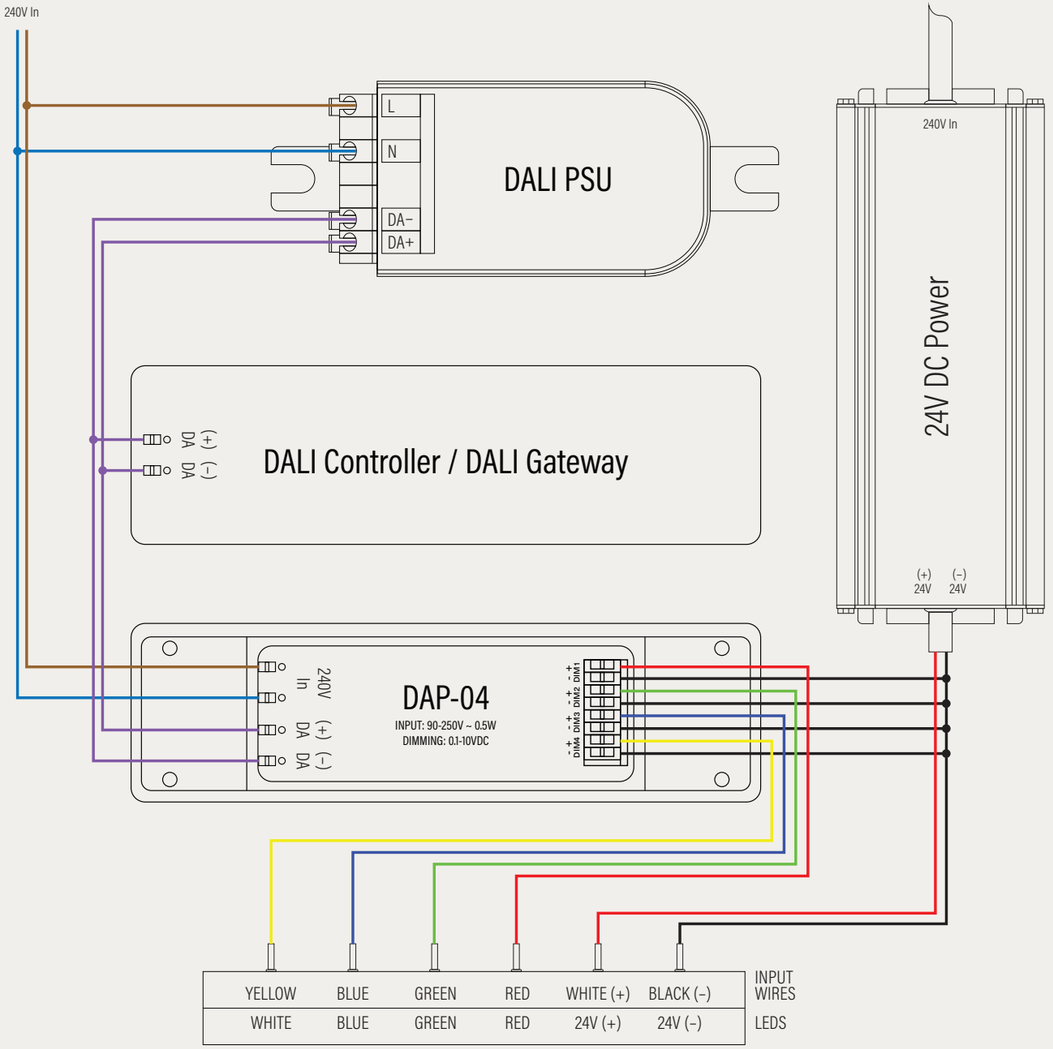
Wiring Diagram

RGBW - 24V DC - 6 Wire - DALI Dimming



RGBW (6 Wire) - Light Fitting

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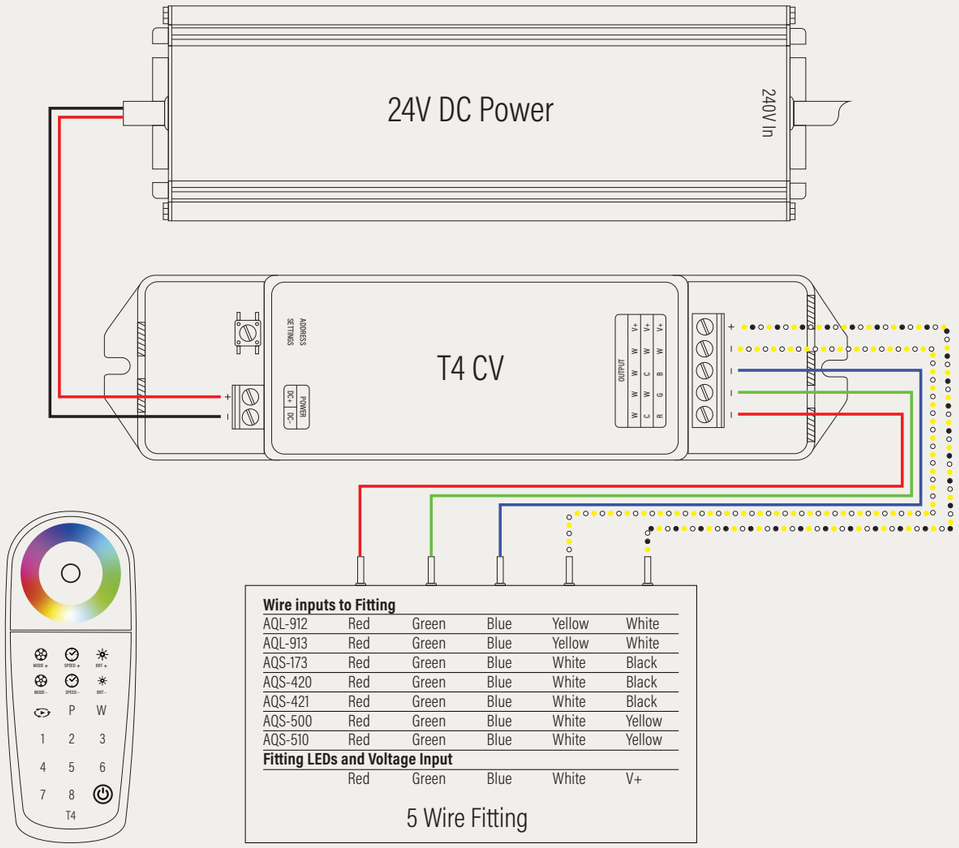
Wiring Diagram

RGBW - 24V DC - 5 Wire - T4 Remote
AQS-500, AQS-510, AQS-420, AQL-912 and AQL-913



Wire inputs to Fitting

AQL-912	Red	Green	Blue	Yellow	White
AQL-913	Red	Green	Blue	Yellow	White
AQS-173	Red	Green	Blue	White	Black
AQS-420	Red	Green	Blue	White	Black
AQS-421	Red	Green	Blue	White	Black
AQS-500	Red	Green	Blue	White	Yellow
AQS-510	Red	Green	Blue	White	Yellow
Fitting LEDs and Voltage Input					
	Red	Green	Blue	White	V+

5 Wire Fitting

Wireless 4 channel with zoning. Max 480W 4 channel @ 24VDC. Up to 8 Zones can be controlled from T4 Remote. RF Range 30m (Line of sight). Unlimited numbers of T4CV's can be added on each zone. Max 10m strip run for single end feed and 20m double end feed.

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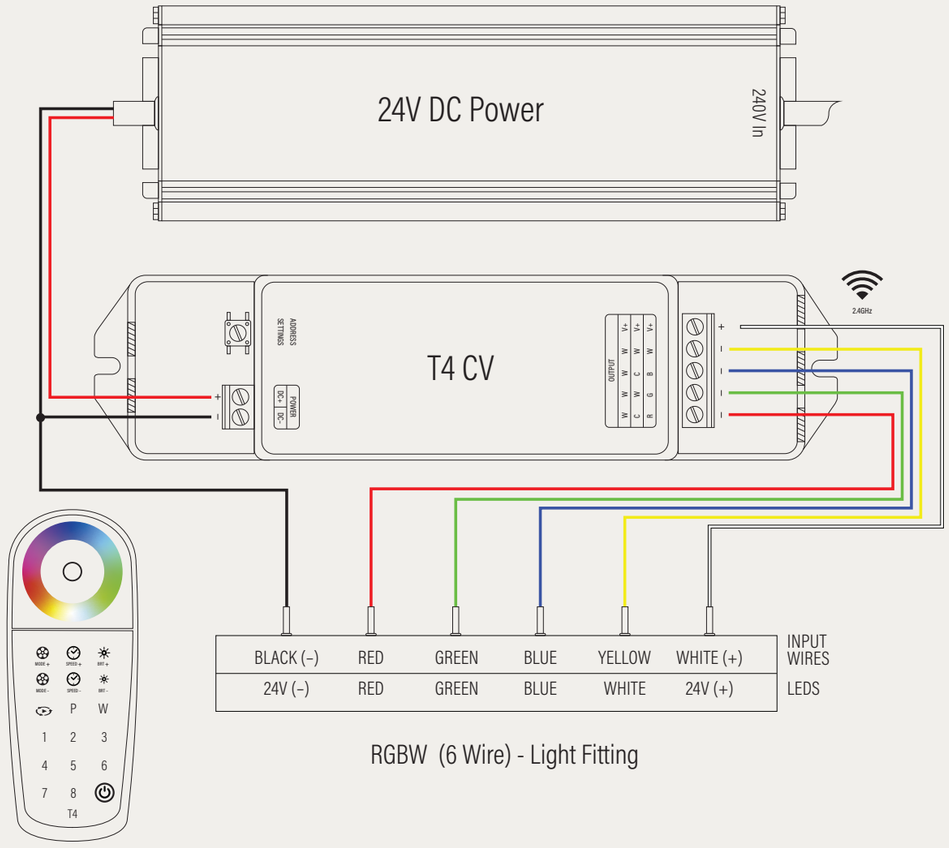
Wiring Diagram

RGBW - 24V DC - 6 Wire - T4 Remote - Aqualux Driver
Lumena, LumenaPro, Phoenix & Artisan - RGBW



RGBW (6 Wire) - Light Fitting

Wireless 4 channel with zoning. Max 480W 4 channel @ 24VDC. Up to 8 Zones can be controlled from T4 Remote. RF Range 30m (Line of sight). Unlimited numbers of T4CV's can be added on each zone. For installations with a load greater than the controller/receiver capacity, the yellow V + wire can be wired directly to the positive + wire from the power supply which can allow up to 600W using a HLG-600H-24 power supply.

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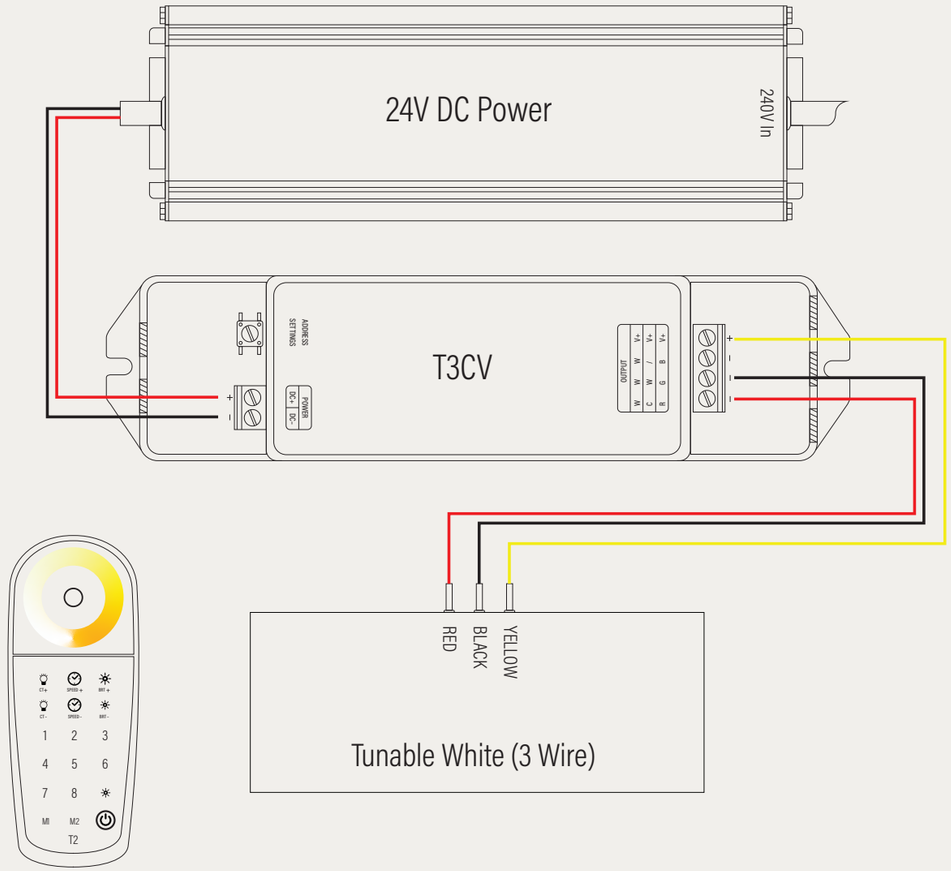
Wiring Diagram

Mono Tunable - 24V DC - 3 Wire - PWM Dimming - T2 Remote



Wireless 2 channel CT setup with zoning. Max 432W 3 channel @ 24VDC. Up to 8 zones can be controlled from T2M remote. RF Range 30m (Line of sight). Unlimited numbers of T3CV's can be added to each zone. Max 5m strip run for single end feed.

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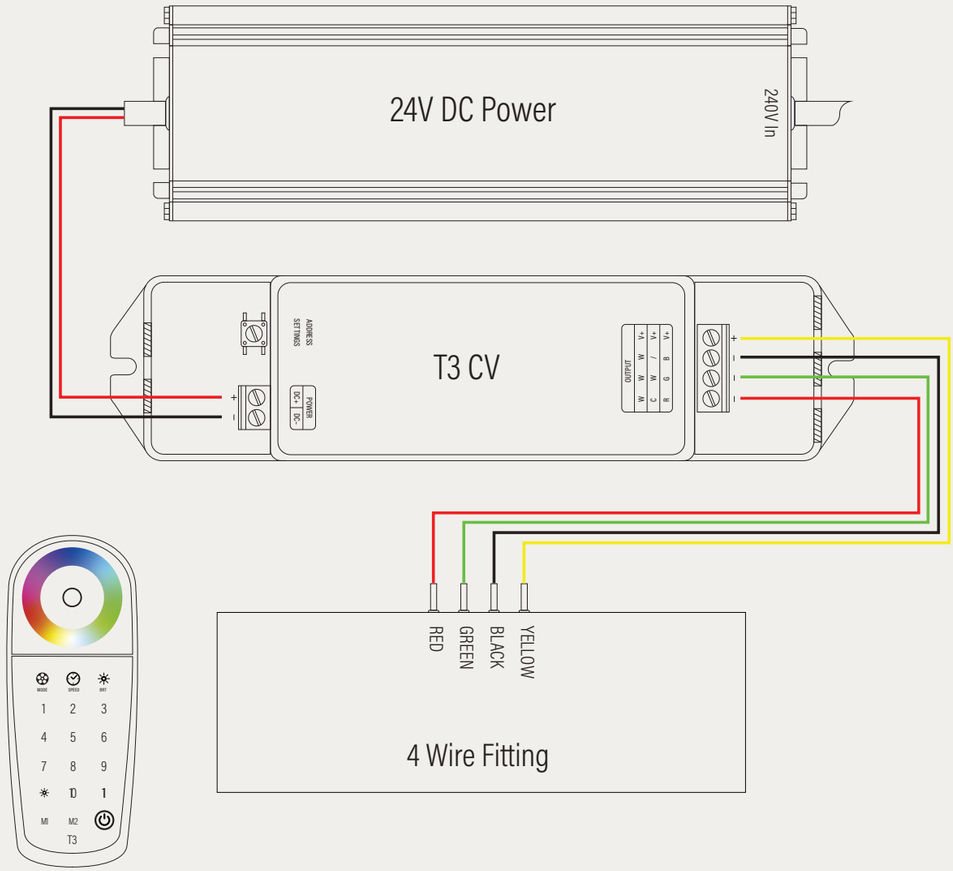
Wiring Diagram

RGB - 24V DC - 4 Wire - PWM Dimming - T3 Remote
AQS-410 and AQS-420



Wireless 3 channel with zoning. Max 432W 3 channel @ 24VDC. Up to 10 zones can be controlled from T3M remot. RF Range 30m (Line of sight). Unlimited numbers of T3CV's can be added to each zone. Max 5m strip run for single end feed.

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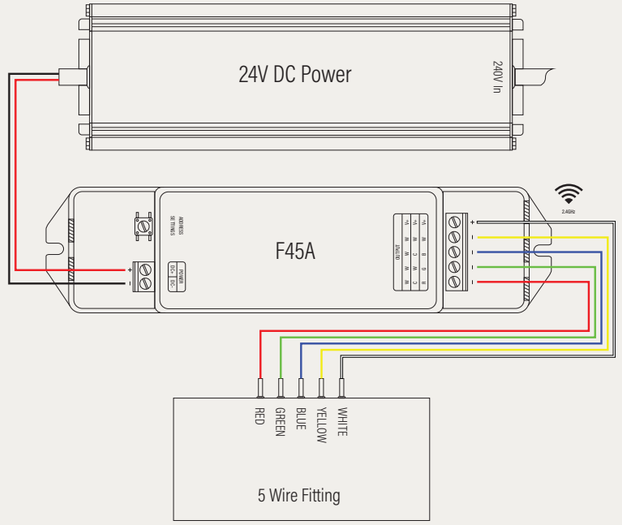
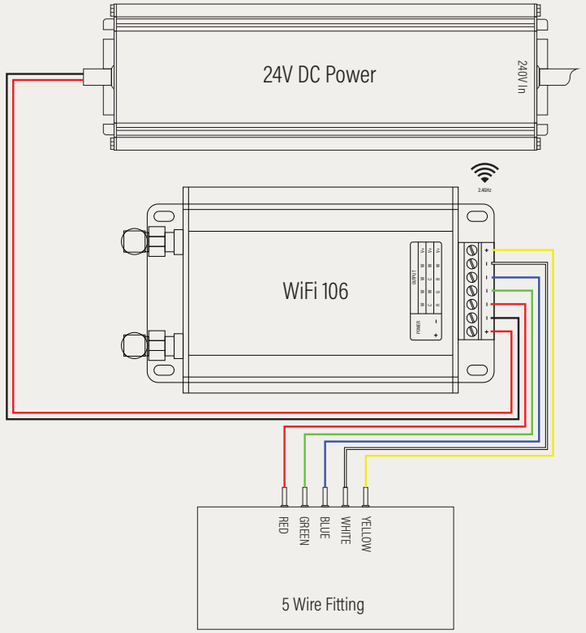
Wiring Diagram

RGBW - 24V DC - 5 Wire - WiFi 106 + F45A
AQS-500 and AQL-900 Series

Setup allows for control from mobile or tablet from free Android or iOS app. Wall controllers and hand held remotes are also available to add to the system. Max 480W 4 channel @ 24VDC. Unlimited F45A's can be added to a zone.





Max 384W 4 channel @ 24VDC. Up to 12 Zones can be controlled from each Wifi-106. 16 Wifi-106's can be run on a Wifi network. RF Range 30m (Line of sight) can be extended with the addition of EBOXAP's (up to 8 AP's).

Wire inputs to Fitting					
AQL-912	Red	Green	Blue	Yellow	White
AQL-913	Red	Green	Blue	Yellow	White
AQS-173	Red	Green	Blue	White	Black
AQS-420	Red	Green	Blue	White	Black
AQS-421	Red	Green	Blue	White	Black
AQS-500	Red	Green	Blue	White	Yellow
AQS-510	Red	Green	Blue	White	Yellow
Fitting LEDs and Voltage Input					
	Red	Green	Blue	White	V+

5 Wire Fitting

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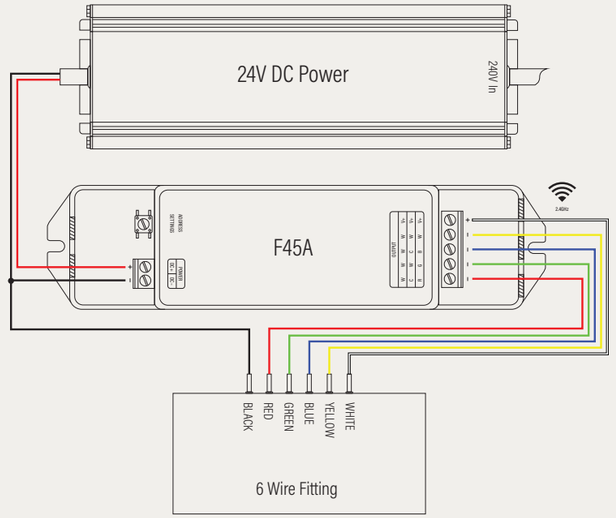
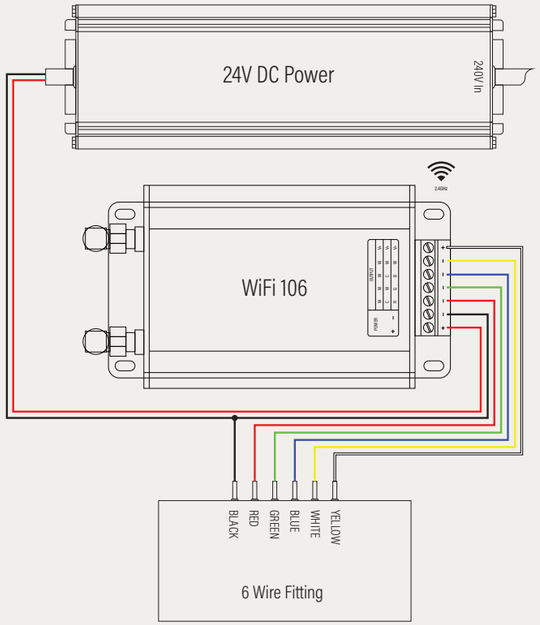
Wiring Diagram

RGBW - 24V DC - 6 Wire - WiFi 106 + F45A
Lumena, LumenaPro and Phoenix

Setup allows for control from mobile or tablet from free Android or iOS app. Wireless wall controllers and hand held remotes are also available to add to the system. Max 480W 4 channel @ 24VDC. Unlimited F45A's can be added to a zone.





Max 384W 4 channel @ 24VDC. Up to 12 Zones can be controlled from each Wifi-106. 16 Wifi-106's can be run on a Wifi network. RF Range 30m (Line of sight) can be extended with the addition of EBOX-AP's (up to 8 AP's). For installations with a load greater than the controller/receiver capacity, the yellow V+ wire can be wired directly to the positive + wire from the power supply which can allow up to 600W using a HLG-600H-24 power supply.

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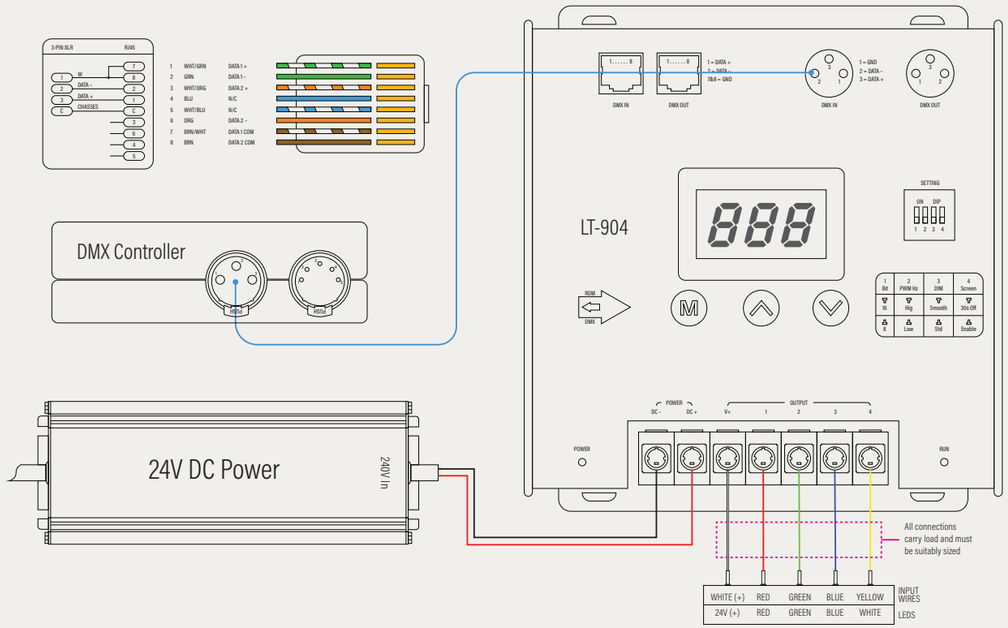
Wiring Diagram

RGBW - 24V DC - 5 Wire - LT904 DMX Dimming
AQL-912, AQL-913 and AQS-500



RGBW (5 Wire) - Light Fitting

Setup allows for app control (needs to be on a wifi network), calender scene triggers, operation from control systems and scene triggering from external sources. 16 and 32 channel receivers available. Receivers can be daisy chained. Up to 128 individual floods per DMX universe with the appropriate amount of receivers. Up to 2 DMX Universes. Wall Controllers available.

Wire inputs to Fitting

AQL-912	Red	Green	Blue	Yellow	White
AQL-913	Red	Green	Blue	Yellow	White
AQS-173	Red	Green	Blue	White	Black
AQS-420	Red	Green	Blue	White	Black
AQS-421	Red	Green	Blue	White	Black
AQS-500	Red	Green	Blue	White	Yellow
AQS-510	Red	Green	Blue	White	Yellow

Fitting LEDs and Voltage Input

	Red	Green	Blue	White	V+

5 Wire Fitting

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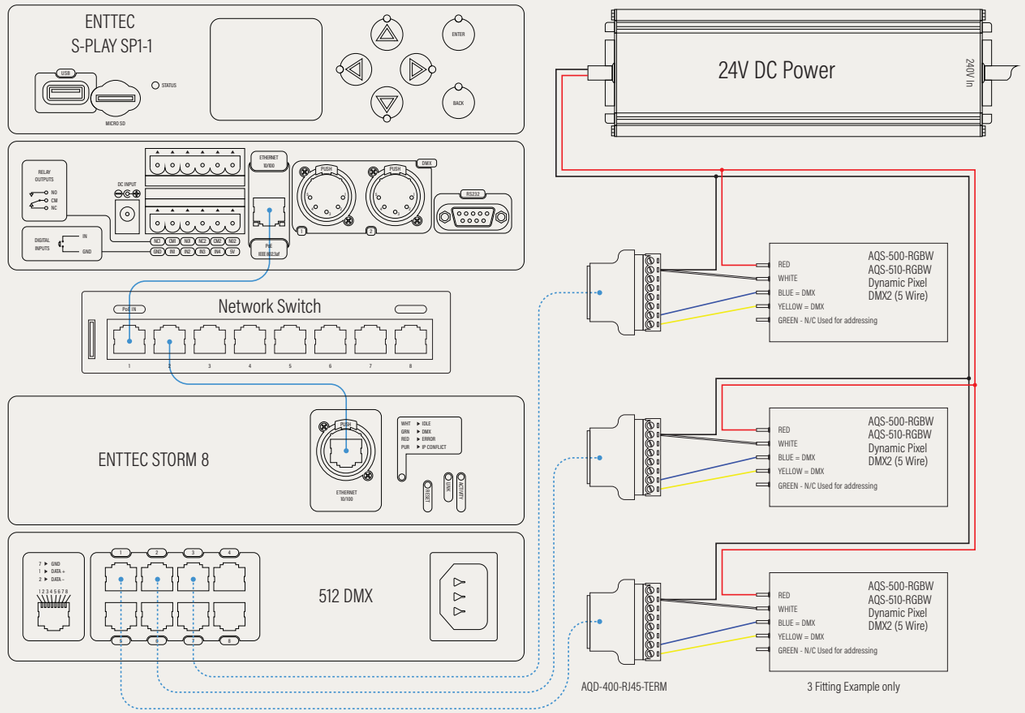
Wiring Diagram

RGBW - 24V DC - 5 Wire Dynamic Pixel DMX Dimming -USC 512C or Compatible
AQS-500 and AQS-510



Setup allows for app control, calender scene triggers, operation from control systems and scene triggering from external sources. 18 Universes of DMX per S-Play Unit (Multiple units can be used for larger installations). 8 and 24 port Storm units available. Max 8m strip run for single end feed and 16m double end feed. Strip is directional (check cable entries and entry and exit tail lengths). Strip is addressable using DMX Writer.

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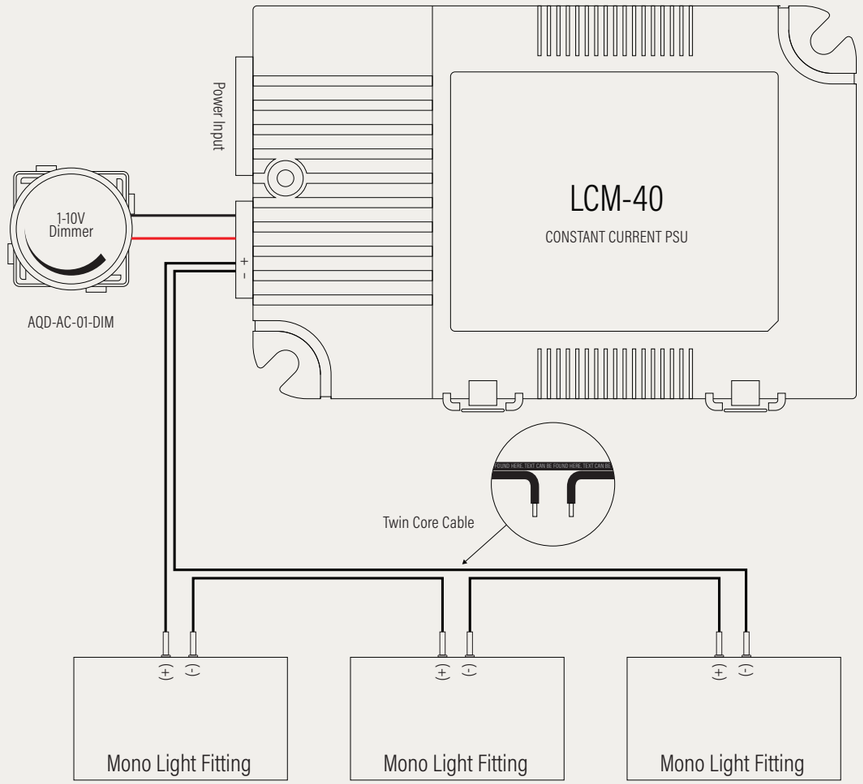
Wiring Diagram

Mono - Constant Current - 2 Wire - 1/10V Dimming
Fittings with no internal driver



3 Fitting Example only

- **Lights are connected in series, with the current flowing from one fitting to the next, from Positive (+) to Negative (-).**
- **Standard garden lighting cable can be used as long as each conductor (+/-) is identified and selected correctly at each fitting.**
- **Many cables have printed marks or molded features such as ribs to aid in conductor identification.**
- **Total circuit voltage must be correctly calculated. This is done by determining the forward voltage (Vf) of each fitting and multiplying by the number of fittings in the circuit. Circuit voltage must not exceed the max voltage of the constant current driver.**
- **Voltage drop is not an issue in constant current circuits as it is the current that is constant, not the voltage. The driver will increase the voltage of the circuit to compensate for losses up until the max voltage it is capable of.**
- **Ensure that the circuit voltage does not exceed SELV maximums for DC circuits, 120V as per AS/NZS 3000:2018.**

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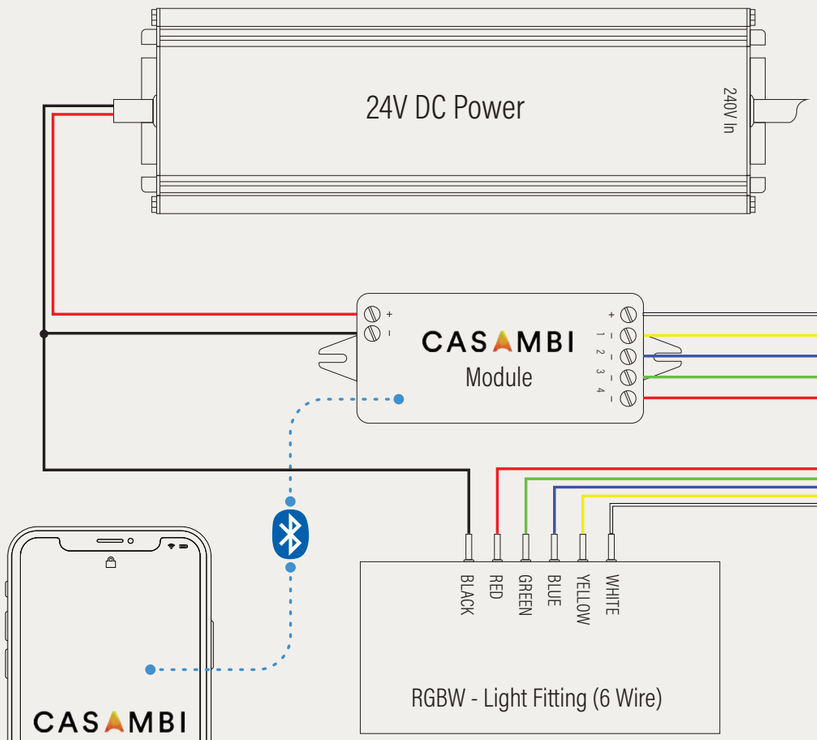
Wiring Diagram

RGBW - 24V DC - 6 Wire - Casambi Connection



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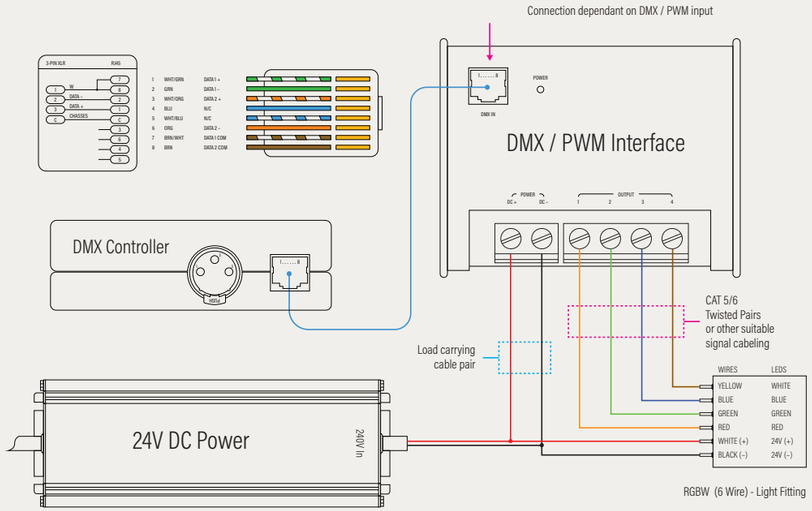
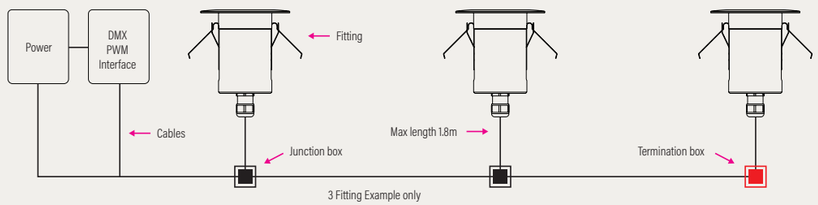
Wiring Diagram

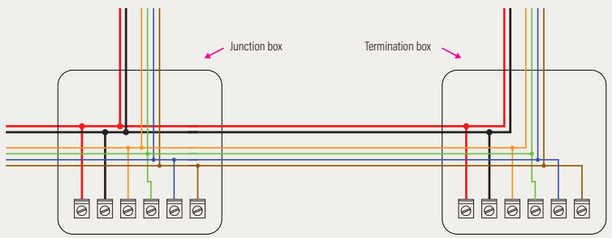
RGBW - 24V DC - 6 Wire - DMX Dimming



Multiple run diagram with junction boxes and terminator. Observe Local wiring rules.
Run length is determined by transformer size, cable size and voltage drop calculations.



Conduit juction box and Termination box diagrams.



Trunk cabeling supplied by others. All joins and junction boxes IP67 minimum.

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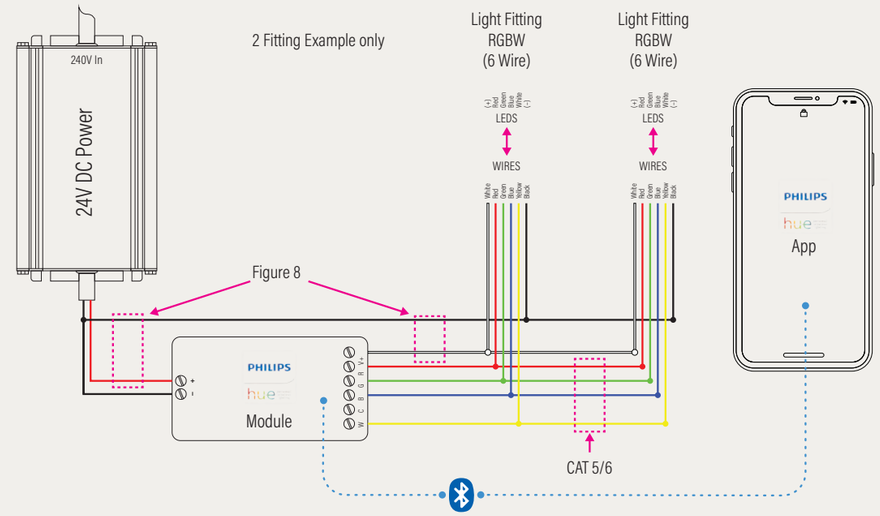
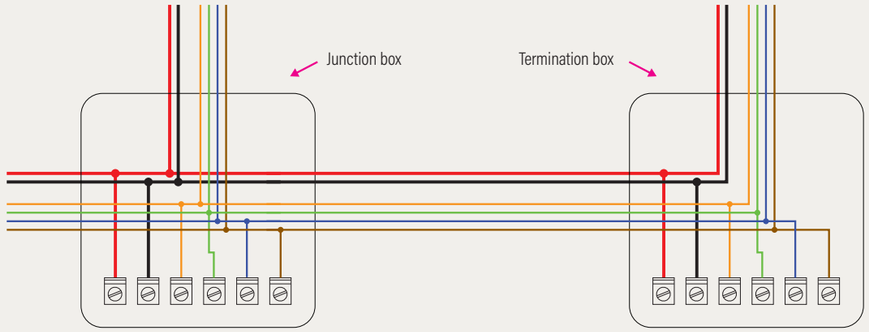
Wiring Diagram

RGBW - 24V DC - 6 Wire - Philips Hue Connection
Lumena, LumenaPro and Phoenix



Multiple run diagram with junction boxes and terminator. Observe Local wiring rules.
Run length is determined by transformer size, cable size and voltage drop calculations.

Conduit juction box and Termination box diagrams.



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Wiring Diagram

Mono - 24V AC - 2 Wire - Phase Cut Dimming
AQF-Festoon, AQS-260 and AQO Drivers

Phase-cut Installation Notes

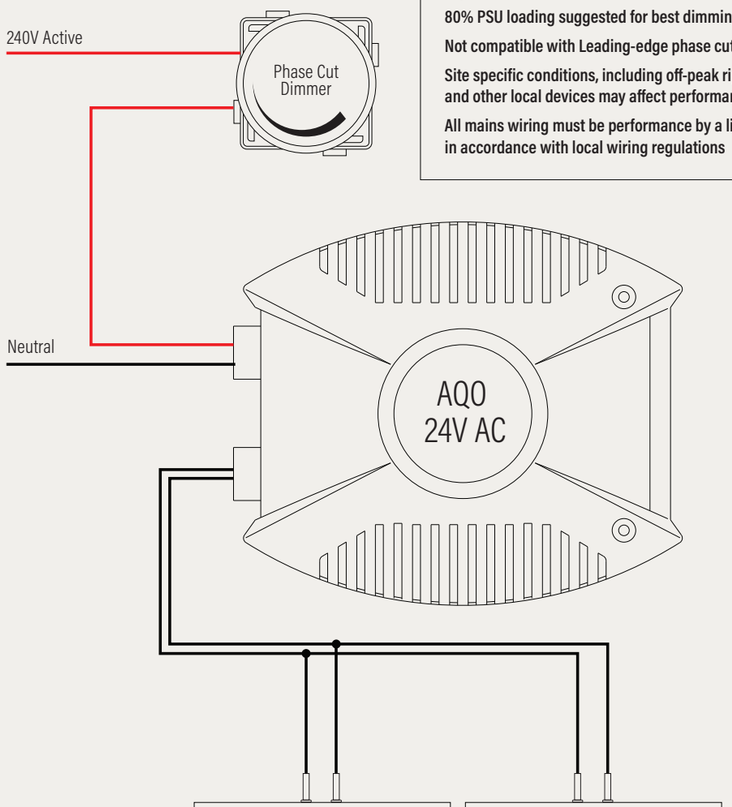
Diginet MEDM Phase Adaptive Dimmer reccommended

80% PSU loading suggested for best dimming performance

Not compatible with Leading-edge phase cut dimmers

Site specific conditions, including off-peak ripple frequencies and other local devices may affect performance

All mains wiring must be performance by a licensed electrician and in accordance with local wiring regulations



2 Fitting Example only

Aqualux fittings must be ordered as Phasecut dimmable. Driver code "D"

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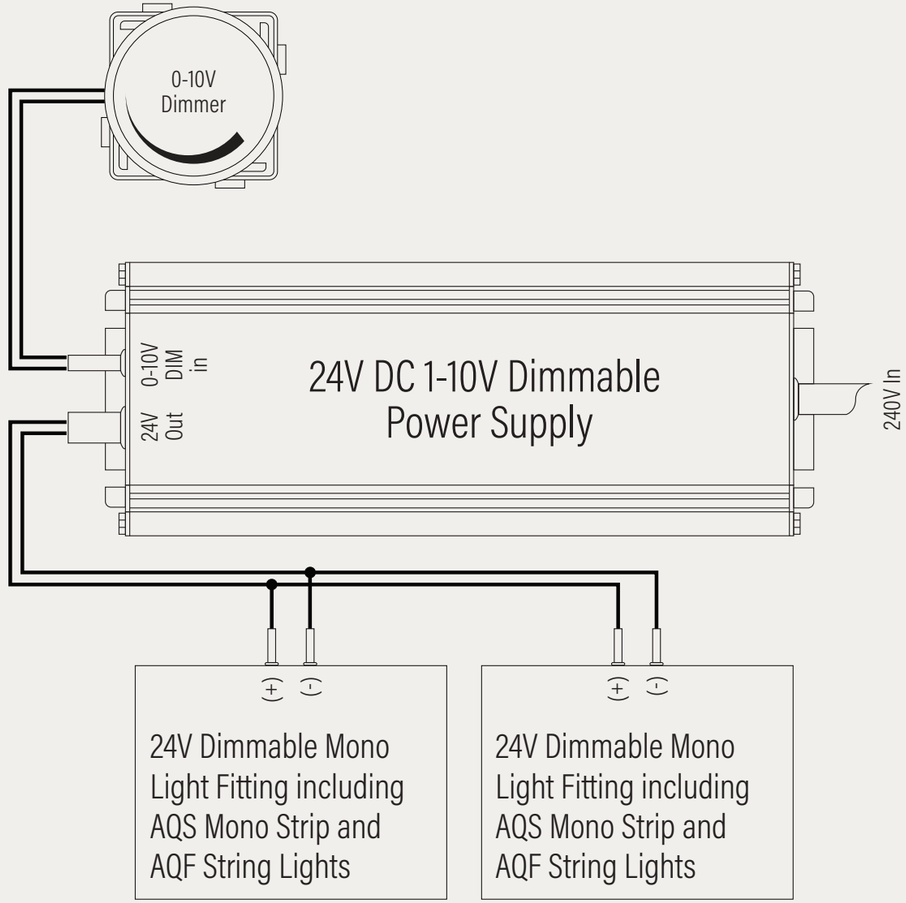
Wiring Diagram

Mono - 24V DC - 2 Wire - 1-10V Dimming
AQS-Mono Strip and AQF-String Lights



2 Fitting Example only

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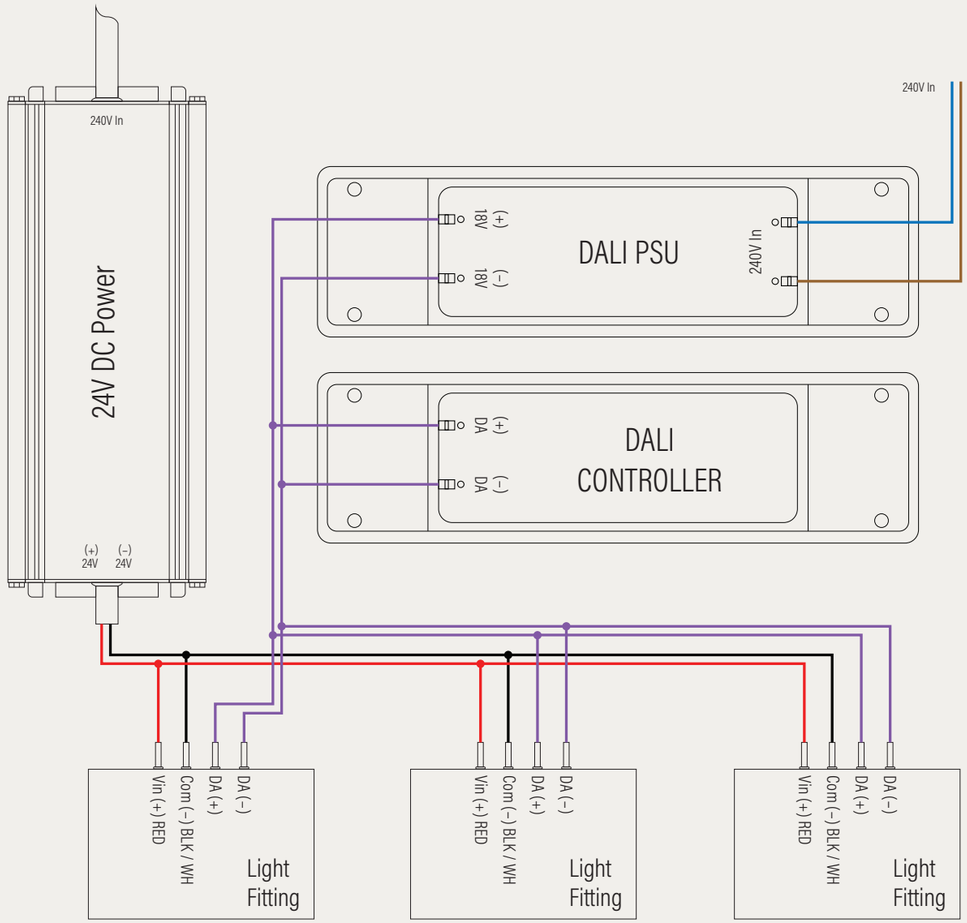
Wiring Diagram

Mono - 24V DC - 4 Wire - Dali Integrated Dimming
Observe all wiring regulations and DALI requirements.



3 Fitting Example only

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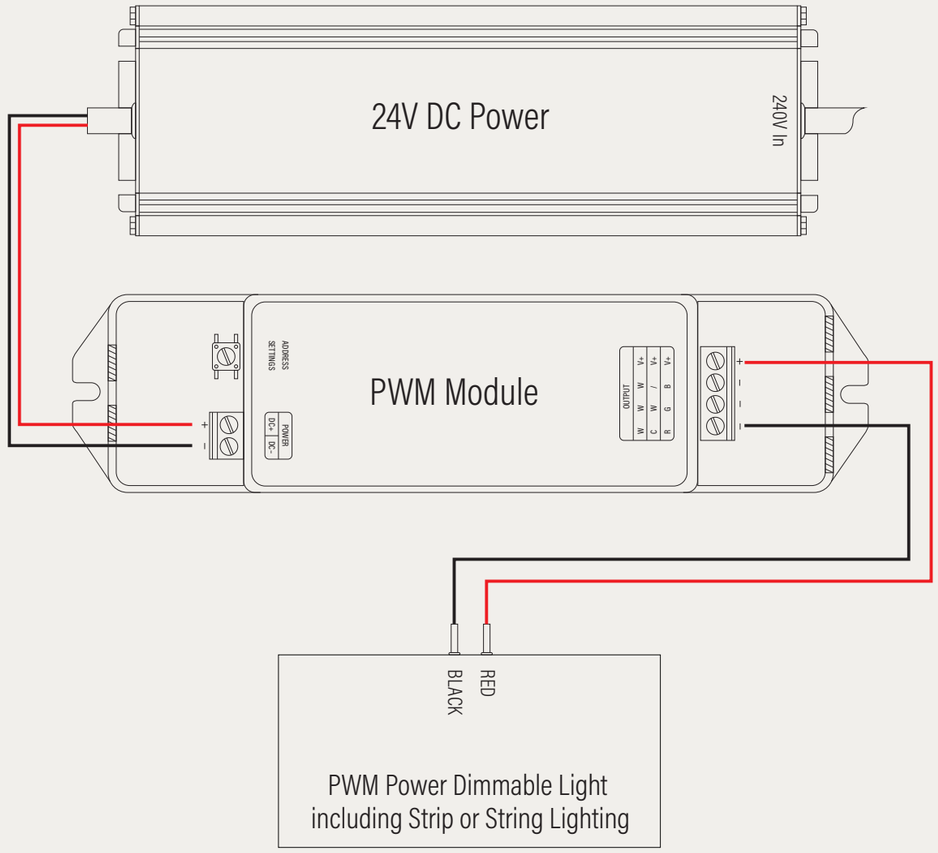
Wiring Diagram

Mono - 24V DC - 2 Wire - PWM Dimming



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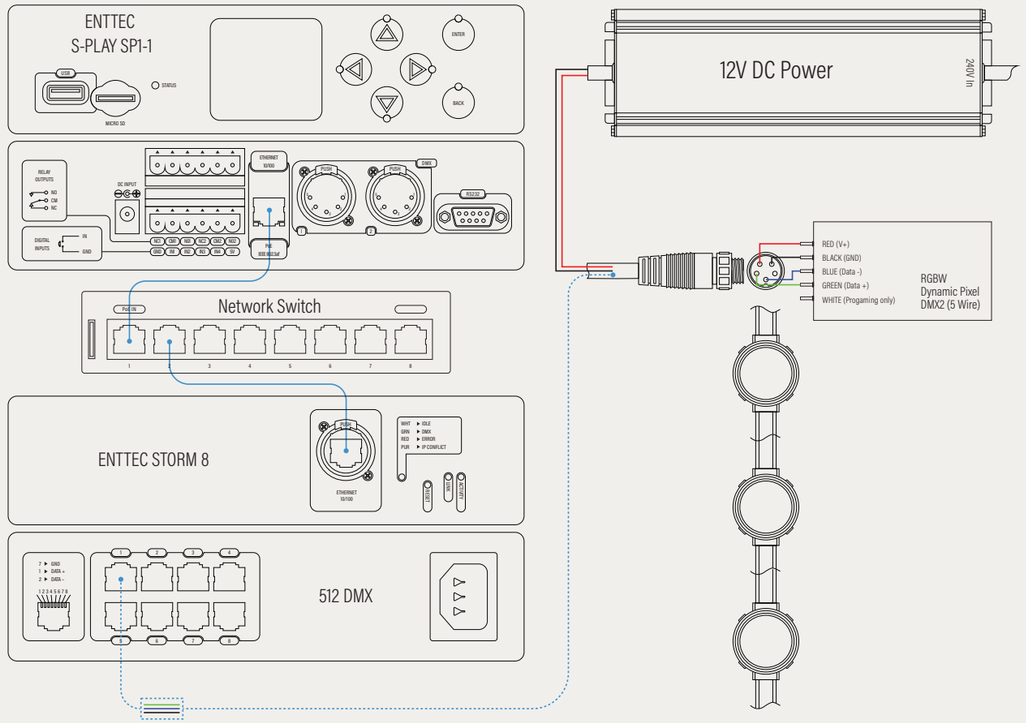
Wiring Diagram

RGBW - 12V DC - 5 Wire Dynamic Pixel DMX Dimming



Setup allows for app control, calender scene triggers, operation from control systems and scene triggering from external sources. 18 Universes of DMX per S-Play Unit (Multiple units can be used for larger installations). 8 and 24 port Storm units available. Max 8m strip run for single end feed and 16m double end feed. Strip is directional (check cable entries and entry and exit tail lengths). Strip is addressable using DMX Writer.

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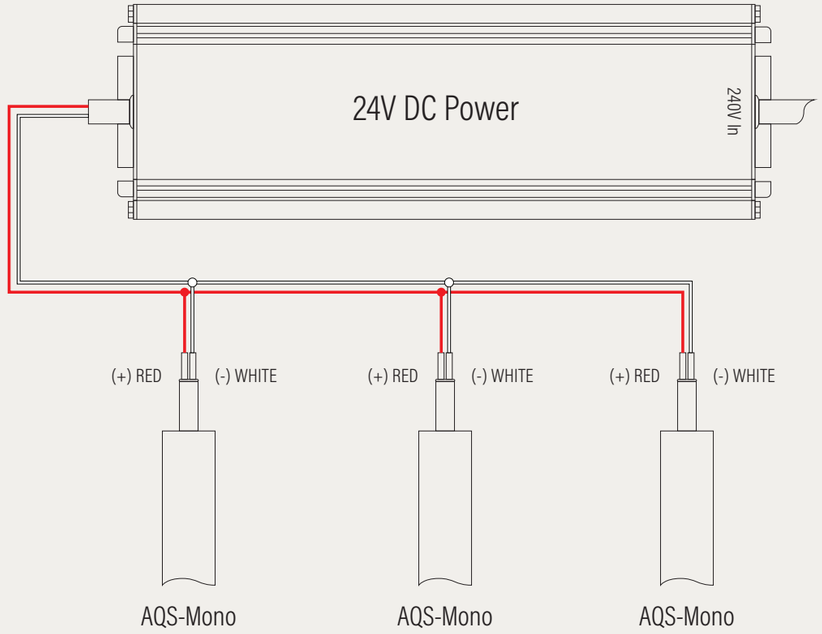
Wiring Diagram

Mono - 24V DC - 2 Wire - Single Ended - No Dimming
AQS-400 Series and AQS-500 Series



Check website for single end run lengths
3 Fitting Example only

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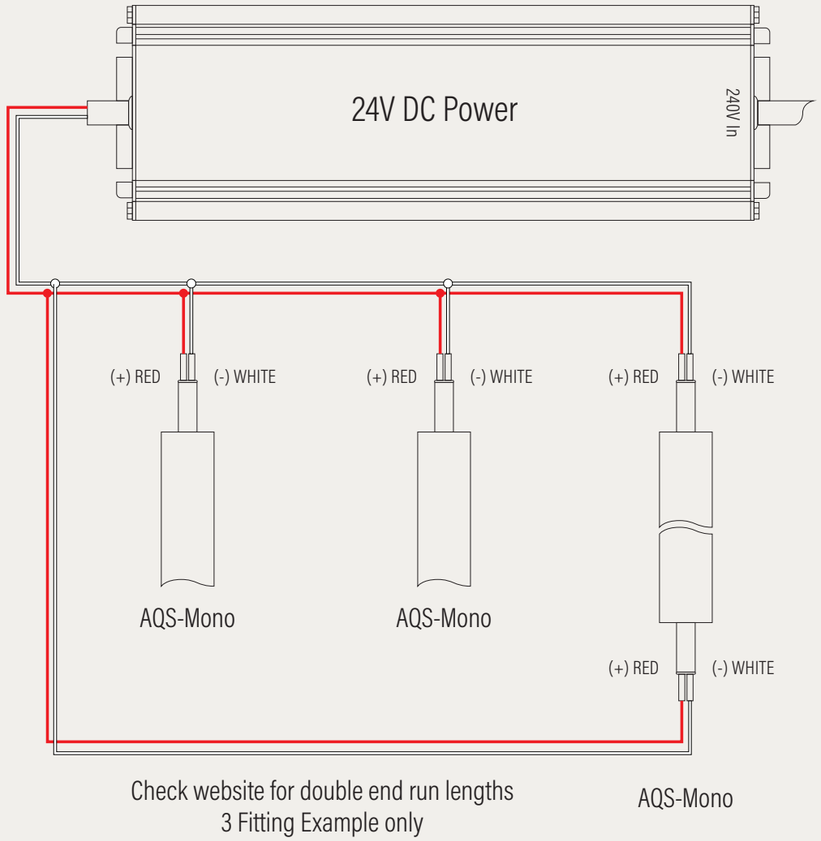
Wiring Diagram

Mono - 24V DC - Double Ended - No Dimming
AQS-400 Series and AQS-500 Series



Check website for double end run lengths
3 Fitting Example only

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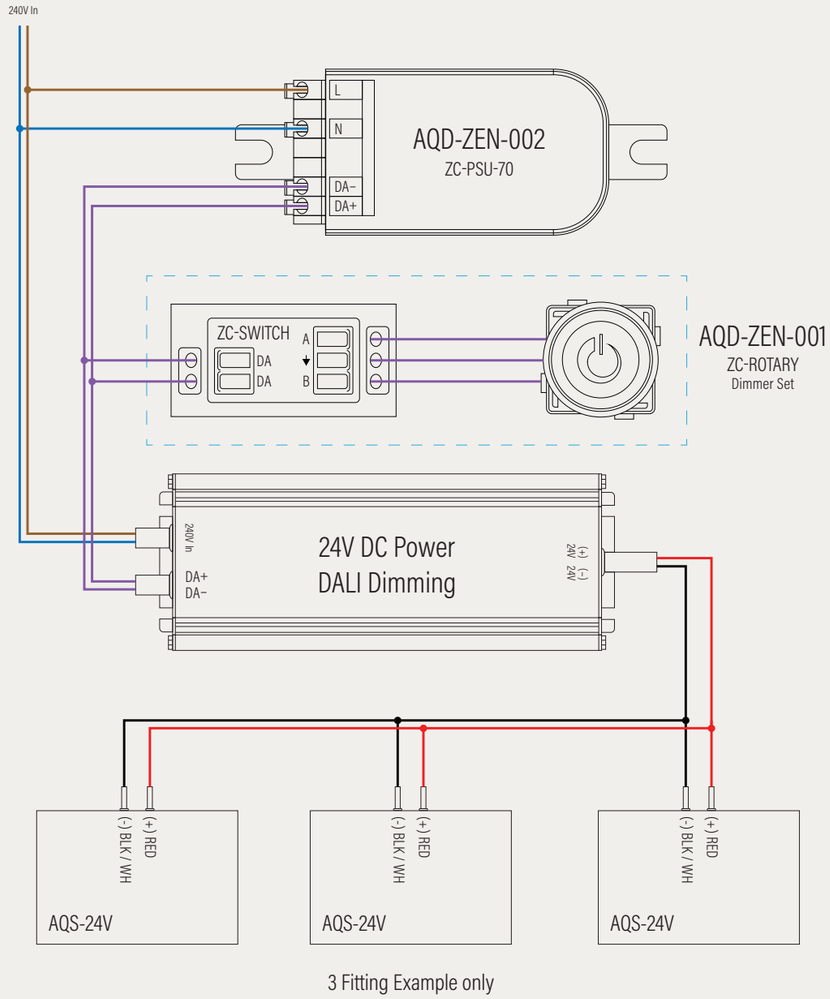
Wiring Diagram

Mono - 24V DC - 2 Wire - Constant Voltage - DALI Dimming
AQS-Mono



3 Fitting Example only

Dali dimming for mono fittings with 3 wire cable.

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Notes

Order & Shipping Information

Please Email your order to sales@aqualux.com.au

Orders under $300 (ex. GST) will be charged small order handling and delivery fee.

Orders above $300 (ex. GST) will be delivered free Australia-wide.

We currently use three primary transport companies - Startrack Express, Couriers Please and Border Express. We may use alternative couriers as necessary.

When we ship your order, you will receive a shipment notification email with tracking numbers.

All shipments are dispatched from Sydney, Australia.

Leadtime Information

Many Aqualux products are Made-to-Order whilst others are generally stocked at all times. Refer to the table below for general leadtime information, however if your order is urgent please give us a call.

Product Group	Stocking Group	Leadtime to Ship
Lumena	Made-to-Order	5 - 10 Days
Phoenix	Made-to-Order Stocked	5 - 10 Days 1 Day
Artisan	Made-to-Order	14 - 21 Days
Elements	Stocked	Ex. Stock
Aquatran	Stocked	Ex. Stock
Accessories	Stocked	Ex. Stock
Strip Lighting	Stocked / Indent	Ex. Stock / 21 Days
Flood Lights	Stocked / Indent	Ex. Stock / 21 Days
Orion LED Lighting	Stocked / Indent	Ex. Stock / 21 Days

- **For project quantities, please enquire.**
- **Prices and Information are subject to change.**
- **Please call for latest information and availability.**
- **If you wish to check stock or leadtimes please email sales@aqualux.com.au**