AQUALUX LOW VOLTAGE
OUTDOOR LIGHTING RANGE
2010 RANGE

PRESENTED BY

StGeorge Landscape
GARDENING SUPPLIES

238 Rocky Point Road, Ramsgate NSW 2217. Phone (02) 9529 6512 or go to www.stgeorgelandscape.com.au

Lumena Decklight, Flexlight & Pucklight

Announcing new Lumena models plus options!

aqualux outdoor lighting

The Lumena Outdoor Lighting System / During 2008 we've added three more models to the Lumena lineup as well as a Hood option and a Lantern attachment! Two surface mount lights, the AQL-150 & the AQL-170 allow for flexible up, down or step lighting whilst the AQL-250 flexlight can be used in all sorts of interesting applications. The Hood option adds a stylish reflector configuration and the Lantern let's your lighting imagination run free.

AQL-150 Decklight / Downlight

The AQL-150 is a contemporary version of the classic in-ground decklight. Featuring custom Stainless Steel spring-catches that will also support the unit as a ceiling downlight, the AQL-150 is extremely versatile!

Type	Architectural LED Decklight / Downlight
Material	6000-Series Aircraft Grade Aluminium
Finish	20um+ Hard Anodised in a variety of colors
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 67
Lamps	3W or 9W LED in 2700K / 4000K / Red / Green / Blue
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	Decklight, Downlight, In-Wall Light
Warranty	3 Year Limited Warranty

AQL-170

Surface Mount Pucklight

The AQL-170 is a surface mount "Pucklight", which can be a steplight, downlight, uplight, side light, or any other light you can think of! Mounted using an integrated mounting bracket, the AQL-170 is suitable for many different applications.

Type	Architectural LED Steplight / Downlight
Material	6000-Series Aircraft Grade Aluminium
Finish	20um+ Hard Anodised in a variety of colors
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 67
Lamps	3W or 9W LED in 2700K / 4000K / Red / Green / Blue
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	Steplight, Cabinet Light, Downlight
Warranty	3 Year Limited Warranty

AQL-250

Surface Mount Flexlight

The AQL-250 is a versatile surface mount spotlight that can be utilised in a wide variety of applications. Available in two flexible lengths the AQL-250 is ideal for highlighting paintings, wall or garden features.

Type	Architectural LED Flexlight
Material	6000-Series Aircraft Grade Aluminium + Chrome Steel Flex
Finish	20um+ Hard Anodised Black or Clear
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 65
Lamps	3W or 9W LED in 2700K / 4000K / Red / Green / Blue
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	Wall Light, Feature Light. Artwork Light
Warranty	3 Year Limited Warranty

Hood & Lantern Attachment Options

The Hood Option allows a reflective hood to be fitted with any of the AQL-100, 200, 300 or 250 models.

The Lantern Option (Available December 2008) lets you turn any Lumena light (except the Decklight & Pucklight) into a glowing lantern ideal for pathway marking or other effect lighting.

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Lumena Lighting System

The revolution in outdoor lighting

The Aqualux Lumena range of light fittings is a truly revolutionary approach to the idea of what an "outdoor" light fitting should represent. Precision machined from 6000-series aerospace aluminium, which is then hard-anosided in a variety of colours and finishes, the Lumena range is perfectly suited to outdoor conditions and rated to IP67. All models are available with the latest in LED technology, in a selection of colours and whites, with optional beam angles and LED power ratings. Read on for more information about the Lumena System.

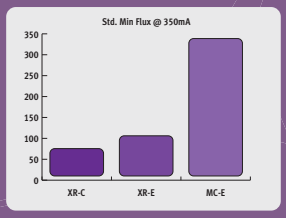
User Replaceable LEDs

Although LEDs are designed to last for many years, replacement is still an issue. In many fittings with integrated LED's, it is not easy for the end user to replace individual LEDs, as they have usually been soldered into place.

The Aqualux Lumena system features user replaceable LEDs, via an internal wire harness that is easily unclipped and a replacement LED or Driver unit swapped in.

CREE XR-C / XR-E / MC-E

Aqualux utilises CREE 'Lighting Class' High Power LEDs for all of it's LED fittings. Our 3W Option utilised the XR-C chip, whilst our 9W option utilises the advanced MC-E Chip, which is actually 4 x XR-E chips in one!



Lumena 3W & 9W LED Options Explained

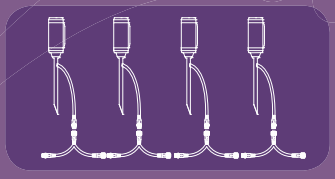
With 3W & 9W LED options, Lumena light fittings have many different lighting scenarios covered. For most applications, the 3W option delivers plenty of light and is roughly equivalent to 15 - 20W halogen output. For the most demanding applications, the 9W option delivers more than 35W halogen-equivilent - and in a 10 Degree lens, this is enough to spot light a tall tree!

Aqualux QuickConnect™ Cabling System

The Aqualux QuickConnect™ cabling system enables rapid installation of LED light fittings. Utilising a series of pre-cut cable lengths and joining adapters, the Aqualux QuickConnect system facilitates the installation of any of the Lumena products without the need for soldering, cable-cutting or any of the other time consuming tasks generally associated with outdoor lighting installations.

System Features

- Rapid light fitting installation
- Water Resistant, Stainless Steel Connections
- 1M / 3M / 5M Interconnect Lengths
- Available as an integrated option on any Lumena family product
- AQO24-100-QC Integrated QuickConnect Power Supply



Lumena Colour Options

The Lumena range is available in a wide selection of colours.

Standard colours are shown below, but please contact us for custom colour enquiries.

Dark Grey, Dark Bronze, Clear and Black are suitable for exterior use. Other colours are suitable only in shaded situations out of direct sunlight

Lumena Order Codes Explained

AQL-100-[G2/B2/C1/BK/CUSTOM]-[WW/CW/R/G/B/MR11]-[N/M/W]-[3W/9W]-[QC]

Base Code | Body Colour | LED Colour | Beam Shape | LED Power | QuickConnect

Example Code for a Clear Body, 3W Blue LED in Medium Beam:
AQL-100-C1-B-M-3W

If you have any questions regarding order codes or whether a certain option is available, please give us a call on 1300-662-644.

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Lumena Wall & Spike Lights

Aqualux Designed & Assembled in Australia

The Lumena AQL-100, AQL-200 & AQL-300 are the perfect components with which to build an outdoor lighting system. Using the Lumena System, any number of lighting systems can be configured - from small two or three light balconies to extensive settings with dozens of luminaires. Totally weatherproof and with the latest generation LED technology, the Lumena system is designed to last.

AQL-100

Inground Spike Uplights

The AQL-100 range is a series of Spike Spots for in-ground use in a variety of applications. Available with different lamp and lens options, the AQL-100 is perfect for feature lighting flora in a sophisticated setting or for uplighting and other in-garden effects.

Type	Architectural Inground Spike Uplight
Material	6000-Series Aircraft Grade Aluminium
Finish	20um+ Hard Anodised in a variety of colors
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 67
Lamps	- 3W or 9W LED in 2700K / 4000K / Red / Green / Blue - MR11 20W Halogen
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	In-garden uplighting of flora or features
Warranty	3 Year Limited Warranty

AQL-200

Wall Down Lights

The AQL-200 is a series of wall mounted down or up lights with a single lamp in either LED or Halogen configurations. Ideal for feature lighting paintings or alcoves, the AQL-200 is also suited to column or post lighting.

Features the Lumena EasyMount™ wall plate.

Type	Architectural Wall Up/Down Light
Material	6000-Series Aircraft Grade Aluminium
Finish	20um+ Hard Anodised in a variety of colors
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 67
Lamps	- 3W or 9W LED in 2700K / 4000K / Red / Green / Blue - MR11 20W Halogen
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	Wall Lighting, Feature Lighting, Column Lighting
Warranty	3 Year Limited Warranty

AQL-300

Wall Up/Down Lights

The AQL-300 Series of Up/Down wall mounted fittings is the contemporary version of a classic outdoor luminaire. Ideal for column lighting and wall lighting in corridors, the AQL-300 is perfect for modern settings where a subdued sophistication is required.

Features the Lumena EasyMount™ wall plate.

Type	Architectural Wall Up+Down Light
Material	6000-Series Aircraft Grade Aluminium
Finish	20um+ Hard Anodised in a variety of colors
Glass	4mm Ultra Clear Flush Safety Glass
Cable	1m 2-core Silicon Lead, Inner Teflon Insulation
IP Rating	IP 67
Lamps	- 3W or 9W LED in 2700K / 4000K / Red / Green / Blue - MR11 20W Halogen
Lens Options	Narrow / Medium / Wide Beam - PMMA Optical Grade Acrylic
LED Driver	10 - 30V AC/DC Integrated Intelligent Driver
Applications	Wall Lighting, Feature Lighting, Column Lighting
Warranty	3 Year Limited Warranty

Andromeda

The Andromeda MR16 range is a classic selection of Marine Grade 316 fittings perfect for a wide range of outdoor lighting applications. Choose from a number of models including wall mounted, in-ground spike fittings or IP68-rated pond fittings. Built to withstand harsher environments, the stainless steel finish will still require attention and occasional cleaning as do all stainless steel products used outdoors. The Andromeda range comes with a 3-Year Limited Warranty.

AWL-01-SS-316

Type	Wall Mount Step Light
Material	Stainless Steel 316
IP Rating	IP 65
Globe	20W Bi Pin Halogen
Application	Step Lighting, Pathway Lighting

AWL-03-SS-316

Type	Wall Mount / Bi-Directional
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR16, 2 x 35W Max
Application	Up + Down Lighting Walls

ASL-04-SS-316

Type	Spot / Pond Light
Material	Stainless Steel 316
IP Rating	IP 68
Globe	MR16, 35W Max, 4M Lead
Application	Underwater Feature Lighting

AUL-02-SS-316

Type	Inground Uplight / Spike
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Uplighting Flora & Feature Walls

AWL-05-SS-316

Type	Wall Mount / Flex Head
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Feature Highlight / Surface Washing

Gemini

The Aqualux MR11 range offers a selection of smaller fittings perfect for modern settings or for any application where style and simplicity are the focus. Available in four models, all are constructed from high quality 316-grade stainless steel and come with a 3-Year Limited Warranty.

AUL-101-SS-316

Type	Inground Uplight / Spike
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR11, 20W Max
Application	Flora / Feature Uplighting

AWL-103-SS-316

Type	Wall Mount / Bi-Directional
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR11, 2 x 20W Max
Application	Up + Down Lighting Walls

AWL-101-SS-316

Type	Wall Light
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR11, 20W Max
Application	Up/Down Lighting Walls & Columns

AWL-102-SS-316

Type	Wall Light / Flex Head
Material	Stainless Steel 316
IP Rating	IP 65
Globe	MR11, 20W Max
Application	Wall / Feature Lighting

Columba & Carina Elements

Pure Copper & Stainless Steel 304

aqualux outdoor lighting

Columba

The Columba range of Copper fittings is ideal for applications where stainless steel is not desirable. Available in a selection of fittings in both MR11 and MR16 sizes, the pure copper construction will naturally oxidise to a dark green whereas the brass will retain its original finish.

AWL-03-CP

Type	Wall Mount / Bi Directional
Material	Copper
IP Rating	IP 65
Globe	MR16, 2 x 35W Max
Application	Up + Down Lighting Walls

AWL-05-CP

Type	Wall Mount / Flex Head
Material	Copper
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Lighting Walls / Features

AWL-102-CP

Type	Wall Light / Flex Head
Material	Copper
IP Rating	IP 65
Globe	MR11, 20W Max
Application	Lighting Walls / Features

AWL-101-CP

Type	Wall Light
Material	Copper
IP Rating	IP 65
Globe	MR11, 20W Max
Application	Up / Down Lighting Walls & Columns

AWL-103-CP

Type	Wall Light / Bi Directional
Material	Copper
IP Rating	IP 65
Globe	MR11, 2 x 20W Max
Application	Up + Down Lighting Walls

Carina 304

The most comprehensive Aqualux product range, the Carina 304 selection offers a wide variety of fittings in high-quality 304 grade stainless steel. Ideal for projects where the budget is fixed but no sacrifice in quality is desired.
All Carina fittings are backed by a 2-Year Limited Warranty.

AUL-02-SS

Type	Inground Uplight / Spike
Material	Stainless Steel 304
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Uplighting flora & feature walls

AUL-03-SS

Type	Burial Uplight
Material	Stainless Steel 304
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Up Lighting

AWL-05-SS

Type	Wall Light / Flex Head
Material	Stainless Steel 304
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Up / Down Lighting Walls

ASL-05-SS

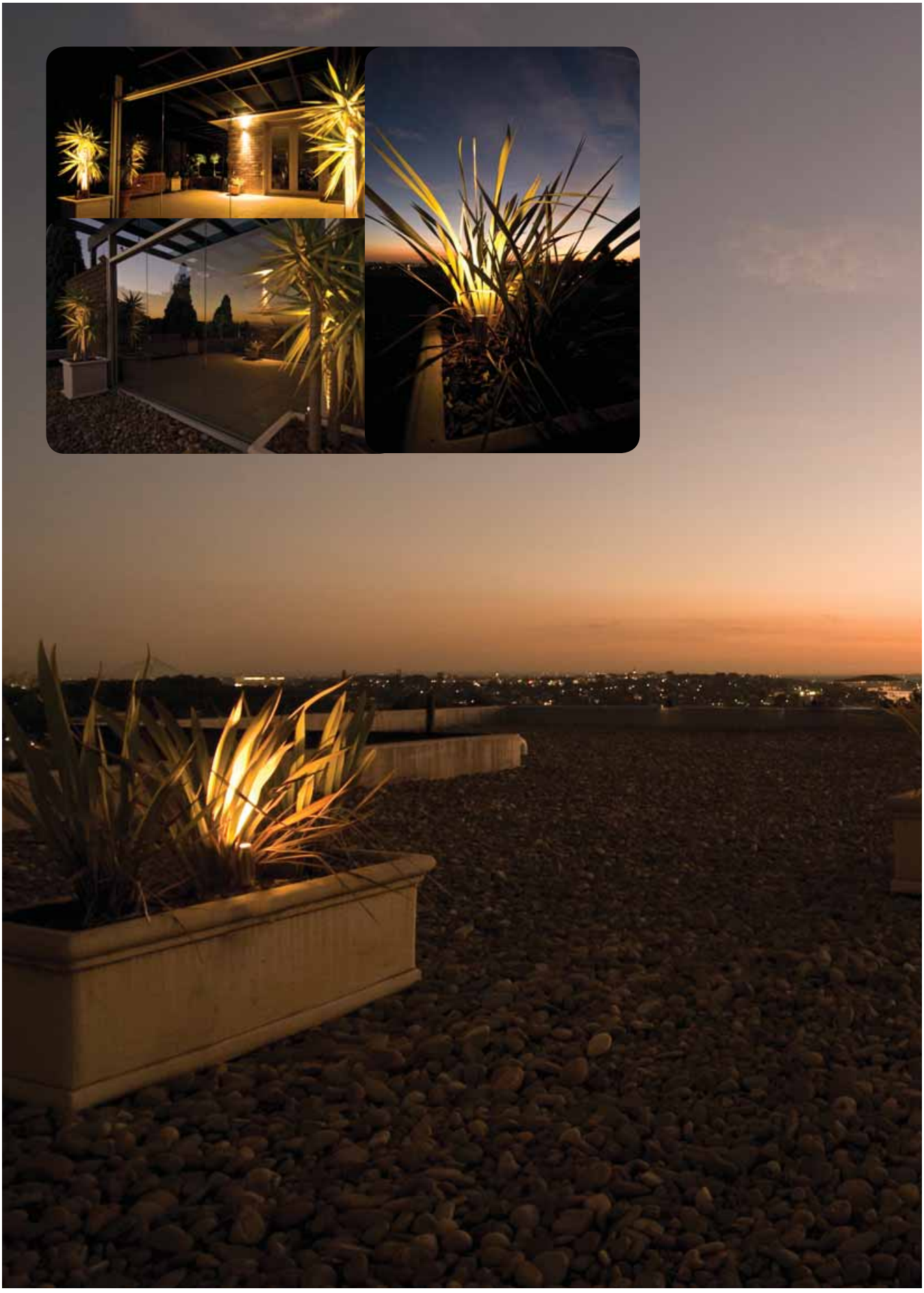
Type	Inground Spot with Spike
Material	Stainless Steel 304
IP Rating	IP 65
Globe	MR16, 35W Max
Application	Spot lighting flora & feature walls

ASL-04-SS

Type	Pond Light
Material	Stainless Steel 304
IP Rating	IP 68
Globe	MR16, 35W Max, 4M Lead
Application	Pond Lighting

AWL-03-SS

Type	Wall Mount / Bi-Directional
Material	Stainless Steel 304
IP Rating	IP 65
Globe	MR16, 2 x 35W Max
Application	Up / Down Lighting Walls



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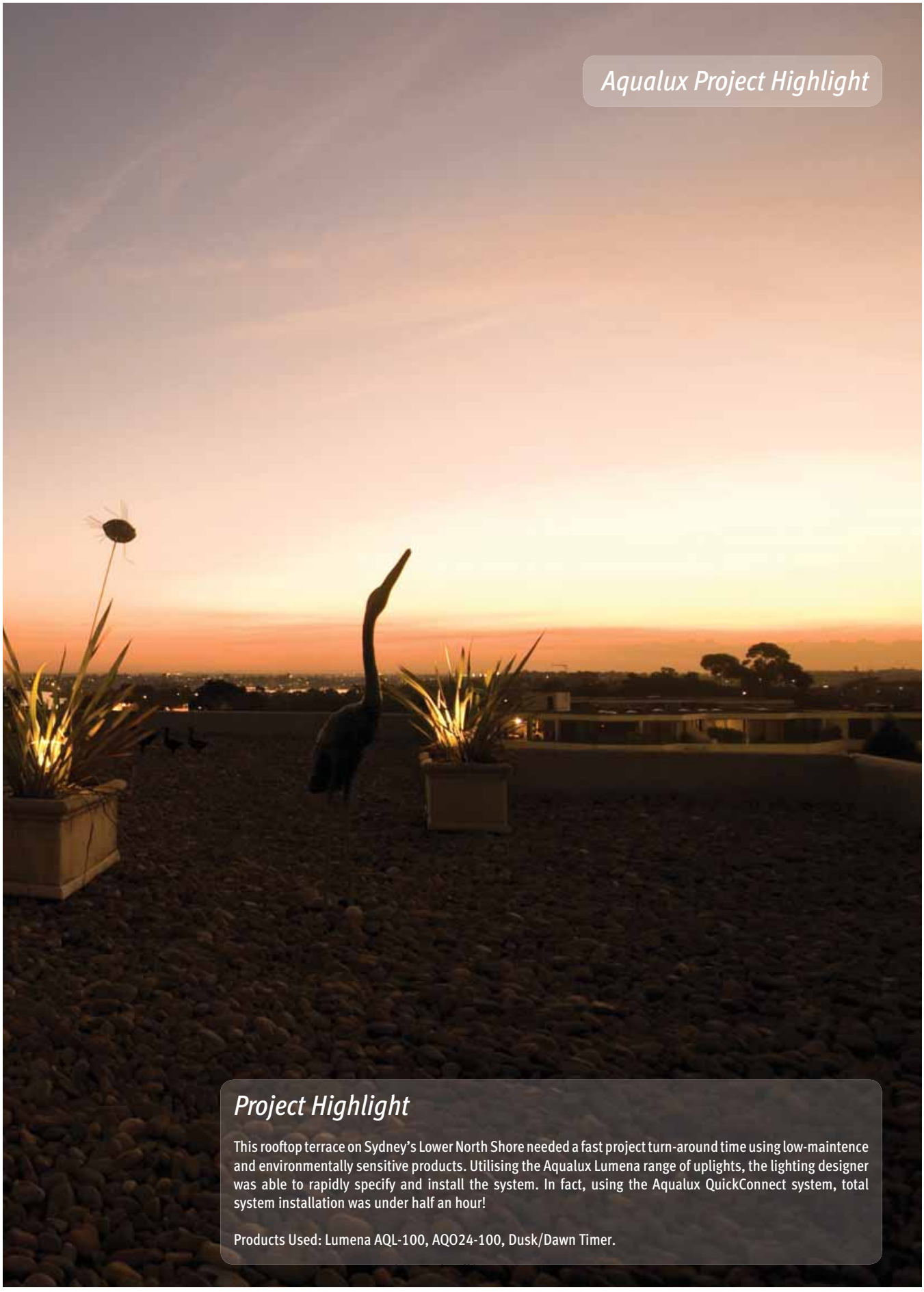


Aqualux Project Highlight

Project Highlight

This rooftop terrace on Sydney's Lower North Shore needed a fast project turn-around time using low-maintence and environmentally sensitive products. Utilising the Aqualux Lumena range of uplights, the lighting designer was able to rapidly specify and install the system. In fact, using the Aqualux QuickConnect system, total system installation was under half an hour!

Products Used: Lumena AQL-100, AQO24-100, Dusk/Dawn Timer.

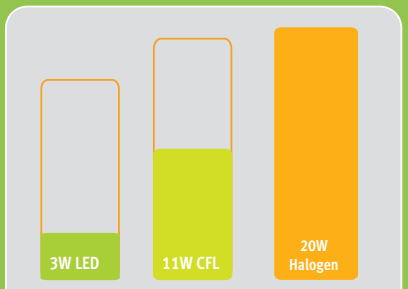
ECO-316 Wall Lights

Energy Efficient Stainless Steel 316 Wall Lights

The Aqualux ECO-316 Range has been custom designed by Aqualux to ensure proper fitting of the latest generation of Compact Fluorescent (CFL) lamps as well as the latest LED Drop-In replacement bulbs. Both lamps represent a significant improvement in terms of energy use over incandescent and are approximately equivalent to a 20W Halogen.

Available in 3 models, the ECO-316 range is perfect for outdoor lighting applications where traditional GU10 Halogens may previously have been used.

CFL models also feature a removable aluminium honeycomb anti-glare filter.



Light output of a 11W CFL lamp at 2700K color temperature is roughly equivalent to a 20W Halogen, using around 1/2 the energy and generating less than 1/2 the luminaire heat. Utilising a 3W LED option, even further energy savings can be had with minimal reduction in light output.

AWL-03-SS-316-ECO

The AWL-03-SS-316-ECO in the ECO-CFL range is the classic Stainless Steel Up/Down light used in many applications across a variety of project types and settings. Providing a good amount of light both above and below the fitting, the AWL-03 is perfect for walkway lighting where wall or ceiling detail can be illuminated as well.

Type	Wall Mount / Bi-Directional
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V 11W GU10 CFL / 240V 3W LED Warm White
Application	Up + Down Lighting Walls & Columns

AWL-05-SS-316-ECO

The AWL-05-SS-316-ECO the flex-head version which allows for more "flexible" placement of the fitting when needing to illuminate off-wall features or ceiling detail. Suitable for both vertical and horizontal mounting, the AWL-05 can be mounted on ceilings for highlighting paintings and other wall features.

Type	Wall Mount / Flex Head
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V 11W GU10 CFL / 240V 3W LED Warm White
Application	Up + Down Lighting Walls & Columns

AWL-06-SS-316-ECO

The AWL-06 model is the classic wall mounted down light refreshed in a modern style and able to accommodate the new CFL globes. Useful in new and retrofit projects where a contemporary, minimalist style is required.

Type	Wall Mount
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V 11W GU10 CFL / 240V 3W LED Warm White
Application	Down Lighting Walls & Columns

Phoenix Brass

The ultimate in durability

Phoenix Cast Brass

3 Year Limited Warranty

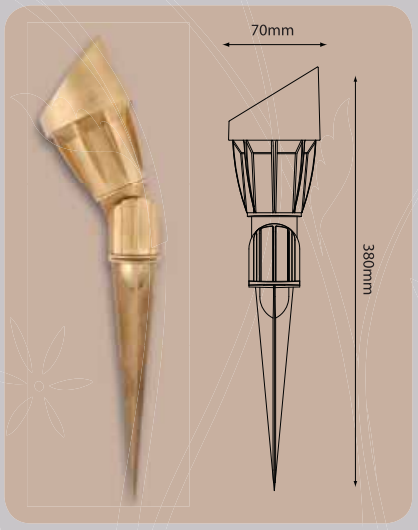
Manufactured from pressure cast-brass, the Phoenix range represents the ultimate in outdoor durability. Select models are treated with an acid-finish that darkens the natural brass color and ensures consistent appearance over many years of operation. Perfect in more rustic or traditional garden settings, the solid brass construction is perfect for applications near coastal areas or where stainless steel or copper would stand out unnaturally.

ASL-03 Brass Spotlight

The new ASL-03 brass spike light is a commercial-grade solid-brass spotlight, with applications in a variety of in-garden scenarios. Built to last for years in the Australian environment, the ASL-03 is also available with a powder-coat option and is sealed to IP66.

Available with 3W or 9W LED, in Warm White, Cool White and Red/Green/Blue, or in traditional MR16 Halogen 20W / 35W / 50W.

- IP66 Rating
- Ships with MR16 35W (20W / 50W Available)
- LED 3W/9W (2700K/4000K/Red/Green/Blue)
- 3 Year Warranty
- 2-core Silicon / Teflon Lead
- Black Powder Coat Option



ASL-01-BR

Type	Inground Hooded Spot with Spike
Material	Cast Brass / Surface Treated
IP Rating	IP 65
Globe	35W MR16 Halogen
Application	Spot lighting gardens features and flora

ABL-02-BR

Type	Inground Hooded Bollard with Spike
Material	Cast Brass / Surface Treated
IP Rating	IP 64
Globe	20W Halogen Bi Pin
Application	Pathway lighting, In Garden lighting

AWL-01-BR

Type	Wall Mount Hooded Steplight
Material	Cast Brass / Surface Treated
IP Rating	IP 65
Globe	20W Halogen Bi Pin
Application	Path / Step Lighting

AWL-02-BR

Type	Wall Mount Slotted Steplight
Material	Cast Brass / Surface Treated
IP Rating	IP 65
Globe	20W Halogen Bi Pin
Application	Path / Step Lighting

LED Information

A general update on the state of LED technology

LED Technology is changing rapidly. Every few months brings a new announcement and it takes a lot of work to keep up! Below is a quick overview of some of the key areas of LED technology as it relates to outdoor lighting in particular.

LED Supply Voltage Requirements

Aqualux LED fittings have been designed to accept a 12VAC - 24VAC power supply. This makes integration into existing outdoor lighting setups straightforward. Some LED light fitting suppliers argue that 24V or higher is required - Aqualux utilises state-of-the-art Voltage Boost drivers in fittings where a higher input voltage may have been required, allowing us to specify a standard 12VAC supply requirement.
All Aqualux LED fittings can be powered with 12 - 30V, AC or DC.

LED Output Power

When high-power LED light fittings first became available, it was common to refer to the different powers available in terms of 'watts'. For example, the first generation of general lighting LED's are referred to as "1W" LED's, the second generation referred to as "3W". This was primarily done in order to provide a comparison to conventional halogen or incandescent bulbs. However using watts is a misleading way of describing LED output, as the present generation of LEDs demonstrates, you can have an LED that uses 2W but emits more light than a "3W" LED! The most accurate form of comparison is to describe LED's in terms of overall efficiency, or Lumens per Watt. This allows for accurate comparison to other light sources and between different generations of LEDs.

Does using AC or DC make a difference?

Most LED's require a constant DC current source. Some high-power LED light fittings require external drivers that provide a constant current output to which LED light fittings are connected in series. Aqualux Outdoor Lighting products have built in driver technology that converts the input source to a constant current DC output. The difference in output current when using DC input rather than AC is approximately 10mA, little enough to make no difference in perceivable output or LED lamp life. The driver technology we utilise in our products is of ultra-high quality and ensures maximum possible LED lifespan.

LED Lamp Lifetime

Stated LED lifetime is usually in the realm of 50,000 hours. This represents (in the case of CREE LED's) the period of operation before the output is reduced to approximately 50% of it's original level. The key to obtaining the stated lifetime is to ensure adequate thermal design in the product, something that all Aqualux products achieve.

Colour Rendering Index (CRI)

Colour Rendering Index (or CRI) is a representative measure of how accurately a certain light source represents the colours and objects it illuminates. A burning filament, such as an incandescent bulb, has a high CRI of nearly 100. A monochromatic source, such as the orange sodium-vapour street lights, has a low CRI of almost 0! You can imagine the difference in how a photograph might appear under those varied light sources! LED's have traditionally had quite low CRI's of around 50, however the latest generation of LED's, including those from CREE that Aqualux uses, have much higher CRI's of around 89, close to that of a halogen bulb.

Primary & Secondary Optics

Most high-power LED's have a primary optic that is attached directly to the MCPCB on which the LED Chip is mounted. In addition to this, for applications such as general lighting, and in all Aqualux products, a secondary optic is also utilized, which refocuses the light into a more useful beam. By changing the secondary optic, you can achieve different beam patterns for different applications.

How an LED works

LED's are very different technology to traditional halogen or even fluorescent lighting systems. An LED consists of a silicon-based semi-conducting material, similar to that used to make modern microchips. The silicon is "doped" with impurities (such as gallium arsinide) to create a p-n junction, or diode. When a current is applied to the diode, electrons flow across the junction, losing energy equivalent to the "band-gap" determined by the doping material, and emitting photons in the process. Hence the term "light emitting diode".

LED vs. Halogen

A brief analysis of the benefits of LED vs. Halogen light sources

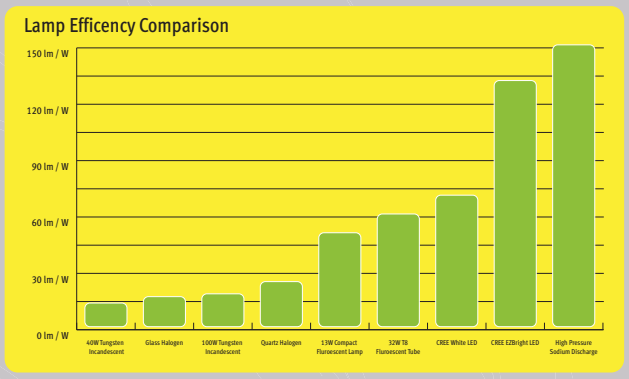
aqualux outdoor lighting

Basic LED vs. Halogen Energy & Cost Comparison

There are many benefits in switching to LED's compared to sticking with Halogen lamps. Some of these benefits include cooler running temperatures, longer lamp life, lower energy consumption and less maintenance. We have summarised some of the differences below, including a comparison of the running costs and a graph that shows varying lamp source efficiencies.

Our analysis takes a typical garden lighting setup with 10 light fittings:

LED vs Halogen	Halogen	LED
Light Fittings	10	10
Watts Each	35W	7W
Fitting Cost	$80	$160
Upfront Cost	$800	$1,600
Total hours of operation	21,900 Hrs	21,900 Hrs
Total Kw/h	7665 kW/h	1533 kW/h
Energy Cost $ Kw/H	$0.15	$0.15
Total Electricity Cost	$1150	$230
Servicing Cost	$500 100 Halogen Globes Avg. Lamp Life 2000 Hrs $5 / Globe, Not Inc. Labor	$0.00 LED Lifespan: 30,000 - 50,000 Hours
Total cost	$2450	$1830



So, as you can see, there is a basic saving over 10 Years of around $620 or 25%, not including inflation, labour involved in halogen lamp maintenance, savings due to reduce copper cable requirements or, importantly, rising energy costs. In its April 2007 information paper IPART indicated that electricity prices from July 07 to July 10 would increase on average 7.7%, 8.2% and 7.2% for the next 3 years.

Lower Operating Temperatures

Whilst LED's still generate heat it is much, much less than an equivilent output Halogen or Incandescent source would generate. The surface temperate of a stainless steel light fitting with a 50W Halogen can easily reach 150°C or greater. By comparison, a similar output LED fitting may reach 60° - 70° as a maximum - still warm, but not nearly as dangerous (or inefficient!) as Halogen.

An important point is that while a Halogen lamp operates more efficiently the hotter it gets, for LEDs it's the opposite. Not only will an LED operate less efficiently at higher temperatures, it will also degrade sooner, resulting in less light output sooner than anticipated. In order to avoid this outcome, it's important not to impede the heat dissipation from an LED fitting.

Lower Current / Reduced Cable Requirements

We already know that LED's draw less current than a comparable Halogen lamp source, but what this also means is that we can utilise a smaller guage trunk or branch line when running cable out to a fitting in an installation. Whereas previously 10mm² cable was routinely used in outdoor lighting installations, we can now use 3mm² or even 1.3mm² cable for roughly the same level of performance. This can translate into a significant saving!

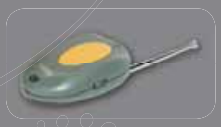
Other Environment Benefits

As well as simply using less energy and emitting less Greenhouse gases at the power plant, the use of LED's also impacts the environment in a positive way due to the reduced number of Halogen lamps that have to be replaced. Every light bulb that you have previously thrown out has ended up as land fill!

Aquatran RF Remote Control Units

Control up to 6A of resistive load from 50M away with the Aquatran RF Remote. Perfect for unwired operation of your garden lighting installation, the AQR remote transmitter and receiver works best in line-of-sight applications where installation of wired switches is undesirable. The receiver unit is IP44 rated for protection from rain and dust whilst the transmitting unit must be protected from the elements. Transmitter and Receiver units are sold seperately, and one transmitter can control up to 4 receiver units.

Model	Description	Max Power	IP	Frequency
AQR-001	Aquatran Remote Transmitting Unit (Battery Inc.)	12V 23A Battery	IP40	433.92Mhz
AQR-002	Aquatran Remote Receiver Relay	240VAC / 50Hz	IP44	433.92Mhz



LED MR16 Replacement Globes

Aquatran 1W & 3W LED bulbs are drop-in replacements suitable for most Aqualux and other MR16 compatible fittings. With more than 10 years expected lifetime under normal use & ultra low power consumption, these globes are the perfect way to achieve long lasting effect lighting in any situation.

Model	Type	Color	~ Hours	Voltage	~ Axial Lux @ 1M	Length	Diameter
AGL-MR16-LED-3W-CW	LED 3W	Cool White	50,000	12VAC/DC	800	45mm	49mm
AGL-MR16-LED-3W-WW	LED 3W	Warm White	50,000	12VAC/DC	423	45mm	49mm
AGL-MR16-LED-3W-B	LED 3W	Blue	50,000	12VAC/DC	1170	45mm	49mm
AGL-MR16-LED-3W-G	LED 3W	Green	50,000	12VAC/DC	660	45mm	49mm
AGL-MR16-LED-3W-R	LED 3W	Red	50,000	12VAC/DC	430	45mm	49mm
AGL-GU10-LED-3W-WW	LED 3W	Warm White	50,000	240 VAC	550	60mm	50mm
AGL-GU10-LED-3W-CW	LED 3W	Cool White	50,000	240 VAC	810	60mm	50mm
AGL-GU10-LED-3W-R	LED 3W	Red	50,000	240 VAC	450	60mm	50mm
AGL-GU10-LED-3W-G	LED 3W	Green	50,000	240 VAC	670	60mm	50mm
AGL-GU10-LED-3W-B	LED 3W	Blue	50,000	240 VAC	1250	60mm	50mm

Timers & Dusk-Dawn Switches

Aquatran timers are the best way to control your outdoor lighting equipment. Connected on the primary-side of the power supply, they can control up to a full 10A of resistive lighting load, or 8 x Aquatran 300VA Power Supplies. Various models are available and all are at least IP44 rated for outdoor operation.

Model	Type	Description	IP	Load	Voltage
AQT-001	Dusk/Dawn + Timer	Pole or wall mounting with adjustable dusk/dawn setting and illumination timer.	IP54	10A Resisitive	240V / 50Hz
AQT-002	Dusk/Dawn + Timer	Wall mount enclosure with adjustable dusk/dawn setting and illumination timer.	IP44	10A Resisitive	240V / 50Hz
AQT-003	Motion Detector	Adjustable lux and sensitivity settings allow the AQT-003 to operate only after dark.	IP44	10A Resisitive	240V / 50Hz

Aquatran Halogen Light Globes

Aquatran halogen bulbs are high quality filament globes and are available in a wide range of ratings.

Model	Type	Color	Approx. Hours	Approx. Load	Voltage	Approx Cd.
AGL-BIPIN-5W	Bi Pin, Halogen	Incandescent	2,000	5W	12VAC	140
AGL-BIPIN-10W	Bi Pin, Halogen	Incandescent	2,000	10W	12VAC	200
AGL-BIPIN-20W	Bi Pin, Halogen	Incandescent	2,000	20W	12VAC	350
AGL-MR11-20W	MR11, Halogen	Incandescent	2,000	20W	12VAC	350
AGL-MR16-20W	MR16, Halogen	Incandescent	2,000	20W	12VAC	460
AGL-MR16-35W	MR16, Halogen	Incandescent	2,000	35W	12VAC	730
AGL-MR16-50W	MR16, Halogen	Incandescent	2,000	50W	12VAC	1500

aquatran FERGUSON

Australia's Leading Outdoor Power Supply

aqualux outdoor lighting

Since its introduction in 2004, the Aquatran AQO has come to be recognised as the best performing, best priced and best looking outdoor low-voltage power unit available. Used by many of the top lighting companies in Australia and New Zealand, the Aquatran AQO is a class-leading product backed by an industry first 5 Year Limited Warranty.

- *Contemporary design and housing*
- *IP67 Rated for full protection in outdoor use*
- *Resetting thermal cutout*
- *High Quality Toroid*
- *Cable exit shrouds accommodate conduit connection*
- *Rugged Polycarbonate Enclosure*
- *Thermal and UV stable epoxy resin encapsulate*
- *Approved to AS/NZS/EN 61558.2.6*
- *1.8M Flex Lead & Plug*
- *0.8M 8mm2 Low Voltage Lead*

Approved

The Aquatran AQO is fully approved to the relevant clauses in AS61558 and is also CE certified for operation in the EU.

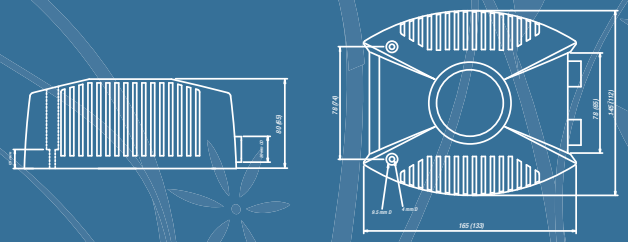
CE

5 Year Limited Warranty

The Aquatran AQO comes with a 5-year limited warranty. In brief, this warranty covers defects in the manufacturing process but does not cover failure due to improper installation or usage for a purpose other than for which it was designed. Please see complete warranty terms by visiting www.aquatran.com.au

Model	Input	Output	VA
AQO12-050	240VAC / 50Hz	12 VAC	50
AQO12-100	240VAC / 50Hz	12 VAC	100
AQO12-150	240VAC / 50Hz	12 VAC	150
AQO12-200	240VAC / 50Hz	12 VAC	200
AQO12-300	240VAC / 50Hz	12 VAC	300
AQO12-400	240VAC / 50Hz	12 VAC	400
AQO24-100	240VAC / 50Hz	24 VAC	100
AQO24-200	240VAC / 50Hz	24 VAC	200
AQO24-300	240VAC / 50Hz	24 VAC	300
AQO24-400	240VAC / 50Hz	24 VAC	400

AQO Dimensions // 150VA > 400VA (50VA > 100VA)



New AQO Packaging

Brand new AQO Packaging. Looks great on the shelf!

AQO 24V QuickConnect

The Aquatran AQO is now available in a 24V 100VA QuickConnect model, allowing direct connection to the Lumena family of LED light fittings without any cable cutting, soldering or splicing. Too easy!

StGeorge Landscape GARDENING SUPPLIES

238 Rocky Point Road Ramsgate NSW 2217
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http://www.stgeorgelandscape.com.au/

aqualux outdoor lighting

ECO

ECO-CFL

Wallmount CFL Downlights

ECO-CFL Range Overview

The new Aqualux ECO-CFL Range has been custom designed by Aqualux to ensure proper fitting of the latest generation of Compact Fluroescent (CFL) lamps. These lamps are rated at 11W, producing light output comparable to a 35W Halogen lamp and significantly less heat.

Available in 3 models, the ECO-CFL range is perfect for outdoor lighting applications where traditional GU10 Halogens may previously have been used.

AWL-03-SS-316-ECO

Description
The AWL-03-SS-316-ECO in the ECO-CFL range is the classic Stainless Steel Up/Down light used in many applications across a variety of project types and settings. Providing a good amount of light both above and below the fitting, the AWL-03 is perfect for walkway lighting where wall or ceiling detail can be illuminated as well.

Type	Wall Mount / Bi-Directional
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V GU10 CFL
Application	Up + Down Lighting Walls

AWL-05-SS-316-ECO

Description
The AWL-05-SS-316-ECO the flex-head version which allows for more “flexible” placement of the fitting when needing to illuminate off-wall features or ceiling detail. Suitable for both vertical and horizontal mounting, the AWL-05 can be mounted on ceilings for highlighting paintings and other wall features.

Type	Wall Mount Flex Head
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V GU10 CFL
Application	Up + Down Lighting Walls

AWL-06-SS-316-ECO

Description
The AWL-06 model is the classic wall mounted down light refreshed in a modern style and able to accommodate the new CFL globes. Useful in new and retrofit projects where a contemporary, minimalist style is required.

Type	Wall Mount Down Light
Material	Stainless Steel 316
IP Rating	IP 65
Globe	240V GU10 CFL
Application	Down Lighting Walls

AWL-03-SS-316-ECO

AWL-05-SS-316-ECO

AWL-06-SS-316-ECO

Lamp Options

11W GU10 Compact Fluroescent Cool White
Also available without lamp

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AUL-03-SS

Inground Uplight

Elements

Description
Inground Uplight

Material
Stainless Steel 304 & ABS Plastic Case

Glass
Clear High Temperature Lens

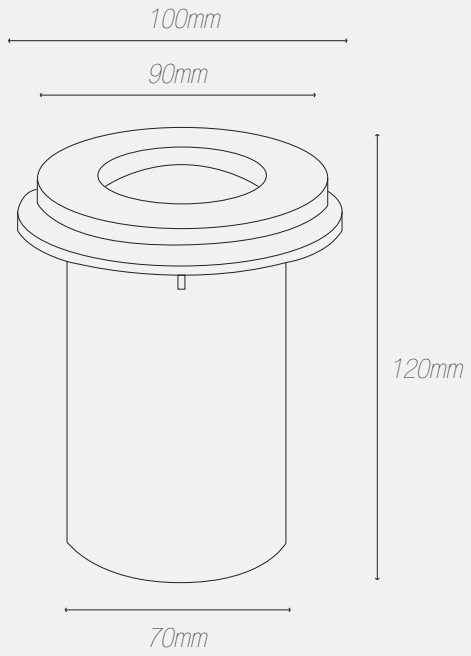
Light Source Options
- 20W Halogen MR16
- 35W Halogen MR16
- 3W LED MR16 Lamp

IP Rating
IP 65

Wiring
.3M Silicon Cable

Warranty
2 Year Limited Warranty

Warning!
Light surface can become very hot during operation with Halogen lamps. Please take caution when placing lamps in high traffic areas.



aqualux outdoor lighting

Lumena

AQL-100

Inground Spike Uplight

Product Information

Product

AQL-100 / Inground Uplight with Spike

Description

The AQL-100 Series is the classic spike uplight redefined. Perfect in modern balcony gardens or indoor/outdoor potplants, the high-powered 3W LED provides ample flora illumination.

Lamp Options

3W or 9W LED or MR11 Halogen Configurations.

Features

- IP67 Rating
- Hard Anodised Machined 6063-T6 Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver

Anodised Colour Options

Custom colours available on request

G2 B2 C1 BK

Lamp Options

LED

Power Options

3 x 3W Array (9W)
1 x 3W (3W)

Colour Options

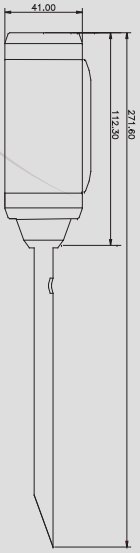
2900K Warm White (WW)
4000K Cool White (CW)
Red (R) / Green (G) / Blue (B)

Beam Options

10° Narrow (N)
25° Medium (M)
40° Wide (W)

Halogen

MR11 20W / 30 Degrees



Related Products / Lumena Range

- AQL-200 Surface Mount Down Light
- AQL-300 Wall Mount Up/Down Light
- AQL-150 Surface Decklight
- AQL-250 Surface Mount FlexHead Light

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aqualux®
outdoor lighting

Lumena

AQL-100

Inground Spike Uplight

Colour Options

The Lumena range is available in a wide selection of colours. Standard colours are detailed below, but please contact us for custom colour enquiries. Dark Grey, Dark Bronze, Clear and Black are suitable for exterior use. Other colours are suitable only in shaded situations out of direct sunlight

How to Order

Order Code Details

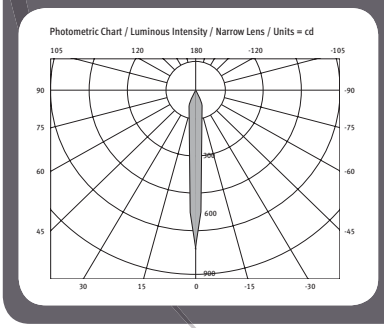
AQL-100-[G2/B2/C1/BK/CUSTOM]-[WW/CW/R/G/B]-[N/M/W]-[9W]

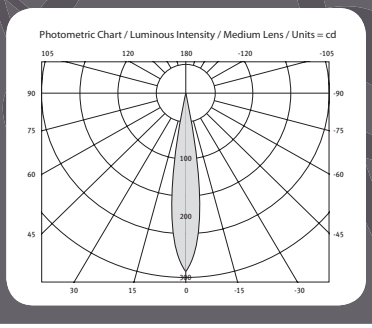
Example Code for a Clear Body, 3W Blue LED in Medium Beam:

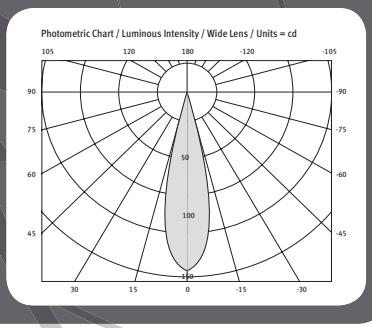
AQL-100-C1-B-M

Photometric Charts

Single 3W LED Warm White - Narrow / Medium / Wide







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aqualux outdoor lighting

Aqualux Lumena®

AQL-150

Inground Decklight or Downlight

Product Information Sheet

Product Code

AQL-150

Product Description

The AQL-150 is a contemporary version of the classic in-ground decklight. Featuring custom Stainless Steel spring-catches that will also support the unit as a ceiling downlight, the AQL-150 is a versatile high-tech fitting.

Product Features

- IP67 Rating
- QuickConnect Cable Option
- Hard Anodised, Machined 6000-Series Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver
- 50mm - 55mm Cutout Diameter

Product Options

Body Colour Options

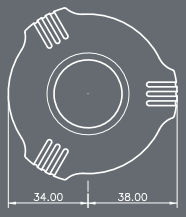
G2	B2	C1	BK
Grey	Bronze	Clear	Black

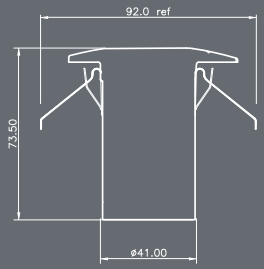
LED Options

2700K	4500K	Red	Green	Blue
3W or 9W		3W Only		

Lens Options

Narrow 10° | Medium 25° | Wide 40°





Other Info

- IES Files available at www.aqualux.com.au
- Custom options available - ring to enquire
- Frosted Glass option Available

Related Products

- AQL-100 Inground Uplight with Spike
- AQL-200 Surface Mount Down Light
- AQL-300 Wall Mount Up/Down Light
- AQL-150 Surface Decklight

aqualux outdoor lighting

Aqualux Lumena®

AQL-150

Inground Decklight or Downlight

Product Information Sheet

Order Code Details

Providing us with the right order code ensures you get the product options you require. Determining the correct Lumena order code is straight-forward. Simply decide which options you or your client wish to proceed with, then follow the system below to work out what the correct code should be.

AQL	-	[MODEL]	-	[G2/B2/C1/BK]	-	[WW/CW/R/G/B]	-	[N/M/W]	-	[3W/9W]	-	[QC]
		Base Code		Body Colour		LED Colour		Beam Shape		LED Power		Quick Connect Option

Example: To order a Black AQL-100 Uplight, with Medium Lens, Warm White 9W LED, the code is: **AQL-100-BK-WW-M-9W**

Lumena Order Sheets are available for download from www.aqualux.com.au

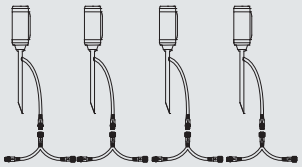
Aqualux QuickConnect

Utilising a series of pre-cut cable lengths and joining adapters, the Aqualux QuickConnect system facilitates the rapid installation of any of the Lumena products without the need for soldering, cable-cutting or any of the other time consuming tasks generally associated with outdoor lighting installations.

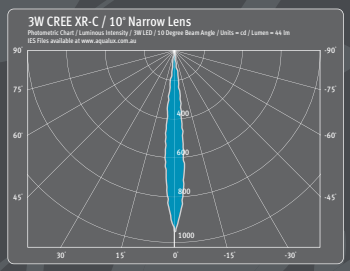
Aqualux QuickConnect™

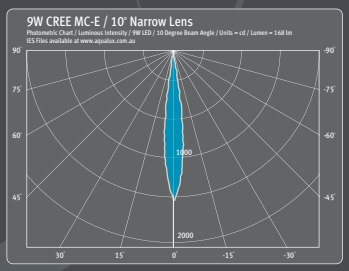
- Rapid Installation System
- Stainless Steel Connectors
- 1M / 3M / 5M Intervals
- Heavy Duty PVC Cable
- 0.75mm Conductors

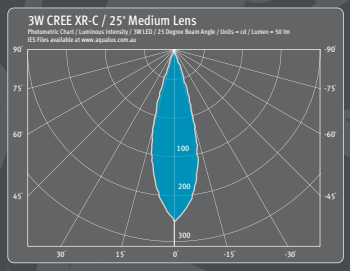
Available on all Lumena Products

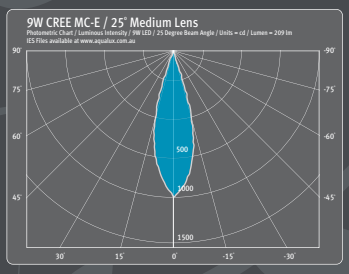


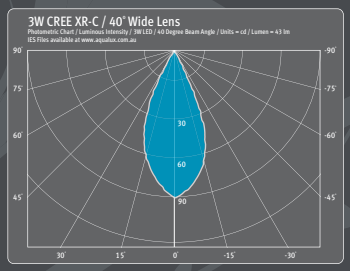
Photometric Charts

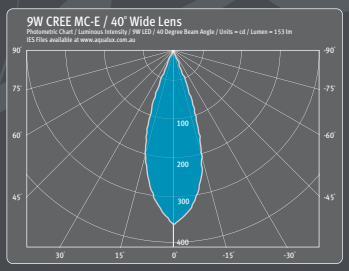












aqualux outdoor lighting

Aqualux Lumena®

AQL-155

Inground Decklight or Downlight

Product Information Sheet

Product Code

AQL-155

Product Description

The AQL-155 is the plain-dressing version of the popular AQL-150 Decklight. Featuring custom Stainless Steel spring-catches that will also support the unit as a ceiling downlight, the AQL-155 is a versatile high-tech fitting.

Product Features

- IP67 Rating
- QuickConnect Cable Option
- Hard Anodised, Machined 6000-Series Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver
- 50mm - 55mm Cutout Diameter

Product Options

Body Colour Options

G2 Grey | B2 Bronze | C1 Clear | BK Black

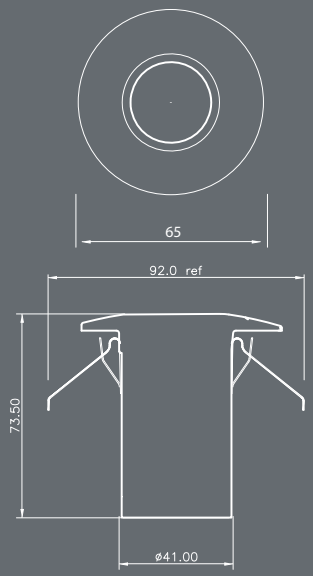
LED Options

2700K | 4500K — 3W or 9W

Red | Green | Blue — 3W Only

Lens Options

Narrow 10° | Medium 25° | Wide 40°



Other Info

- IES Files available at www.aqualux.com.au
- Custom options available - ring to enquire
- Frosted Glass option Available

Related Products

- AQL-100 Inground Uplight with Spike
- AQL-200 Surface Mount Down Light
- AQL-300 Wall Mount Up/Down Light
- AQL-150 Surface Decklight

aqualux outdoor lighting

Product Information Sheet

Aqualux Lumena®

AQL-155

Inground Decklight or Downlight

Order Code Details

Providing us with the right order code ensures you get the product options you require. Determining the correct Lumena order code is straight-forward. Simply decide which options you or your client wish to proceed with, then follow the system below to work out what the correct code should be.

AQL	- [MODEL]	- [G2/B2/C1/BK]	- [WW/CW/R/G/B]	- [N/M/W]	- [3W/9W]	- [QC]
	Base Code	Body Colour	LED Colour	Beam Shape	LED Power	Quick Connect Option

Example: To order a Black AQL-100 Uplight, with Medium Lens, Warm White 9W LED, the code is: **AQL-100-BK-WW-M-9W**

Lumena Order Sheets are available for download from www.aqualux.com.au

Aqualux QuickConnect

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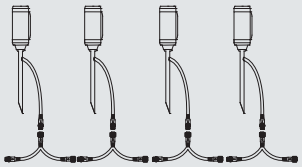
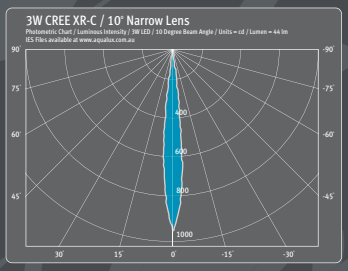
Aqualux QuickConnect™

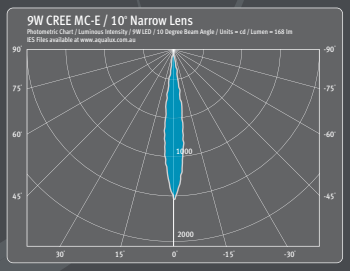
- Rapid Installation System
- Stainless Steel Connectors
- 1M / 3M / 5M Intervals
- Heavy Duty PVC Cable
- 0.75mm Conductors

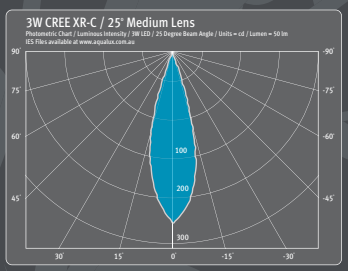
Available on all Lumena Products

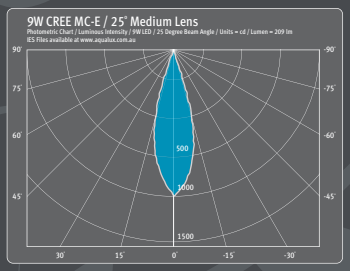


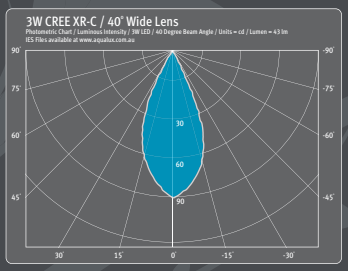
Photometric Charts

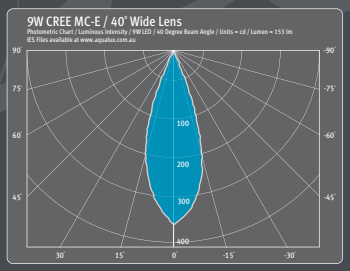












aqualux outdoor lighting

Lumena

AQL-200

Surface Mount Downlight

Product Information

Product

AQL-200 / Surface Mount Downlight

Description

The AQL-200 is perfect in applications requiring a wall mount or surface mount down light with minimal visual intrusion but maximum lighting effect. Ideal for illuminating columns and artworks to name a few of the many applications for this light.

Lamp Options

3W or 9W LED or MR11 Halogen Configurations.

Features

- IP67 Rating
- Hard Anodised Machined 6063-T6 Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver

Anodised Colour Options

Custom Colours Available on Request

G2 B2 C1 BK

Lamp Options

LED

Power Options

3 x 3W Array (9W)
1 x 3W (3W)

Colour Options

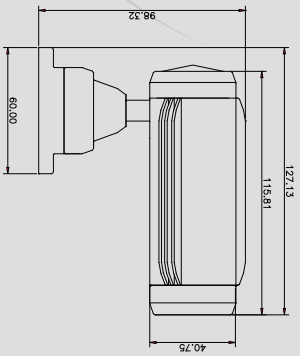
2900K Warm White (WW)
4000K Cool White (CW)
Red (R) / Green (G) / Blue (B)

Beam Options

10^0 Narrow (N)
25^0 Medium (M)
40^0 Wide (W)

Halogen

MR11 20W / 30 Degrees



Related Products / Lumena Range

- AQL-100 Inground Uplight with Spike
- AQL-300 Wall Mount Up/Down Light
- AQL-150 Surface Decklight
- AQL-250 Surface Mount FlexHead Light

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Lumena

AQL-200

Surface Mount Downlight

Colour Options

The Lumena range is available in a wide selection of colours. Standard colours are detailed below, but please contact us for custom colour enquiries. Dark Grey, Dark Bronze, Clear and Black are suitable for exterior use. Other colours are suitable only in shaded situations out of direct sunlight

How to Order

Order Code Details

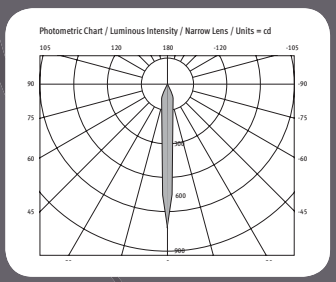
AQL-200-[G2/B2/C1/BK/CUSTOM]-[WW/CW/R/G/B]-[N/M/W]-[9W]

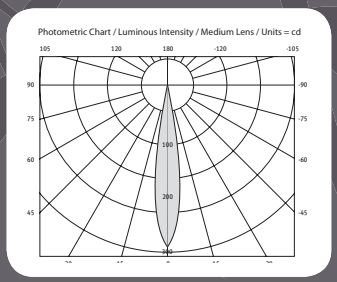
Example Code for a Clear Body, 3W Blue LED in Medium Beam:

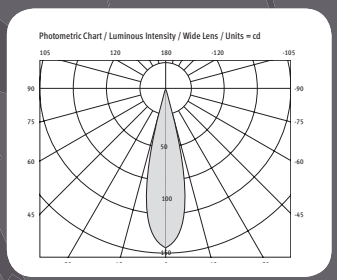
AQL-200-C1-B-M

Photometric Charts

Single 3W LED Warm White - Narrow / Medium / Wide







aqualux
outdoor lighting

Lumena

AQL-250

Surface Mount FlexLight

Product Information

Product

AQL-250 / Surface Mount Flex Head Light

Description

The AQL-250 is a versatile surface mount spotlight that can be utilised in a wide variety of applications. Available in two flexible lengths, the AQL-250 is ideal for highlighting paintings and wall or garden features.

Lamp Options

3W or 9W LED or MR11 Halogen Configurations.

Features

- 120 or 200mm FlexTube Option
- IP66 Rating (Due to FlexTube)
- Hard Anodised Machined 6063-T6 Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver

Anodised Colour Options

Custom colours available on request

G2 B2 C1 BK

Lamp Options

LED

Power Options

3W (3W)
9W Multi Chip (9W)

Colour Options

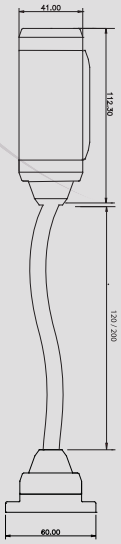
2900K Warm White (WW)
4000K Cool White (CW)
Red (R) / Green (G) / Blue (B)

Beam Options

10^0 Narrow (N)
25^0 Medium (M)
40^0 Wide (W)

Halogen

MR11 20W / 30 Degrees



Related Products / Lumena

- AQL-100 Inground Uplight with Spike
- AQL-200 Surface Mount Down Light
- AQL-300 Wall Mount Up/Down Light
- AQL-150 Surface Decklight

aqualux outdoor lighting

Lumena

AQL-250

Surface Mount Flex Head

Colour Options

Please note that the flexible extension is available in Silver or Black only.

The Lumena range is available in a wide selection of colours. Standard colours are detailed below, but please contact us for custom colour enquiries. Dark Grey, Dark Bronze, Clear and Black are suitable for exterior use. Other colours are suitable only in shaded situations out of direct sunlight

How to Order

AQL-100-[G2/B2/C1/BK/CUSTOM]-[WW/CW/R/G/B/MR11]-[N/M/W]-[3W/9W]

Base Code | Body Colour | LED Colour | Beam Shape | LED Power

Example Code for a Clear Body, 3W Blue LED in Medium Beam:

AQL-100-C1-B-M

Aqualux QuickConnect Cabling System

The Aqualux QuickConnect cabling system enables rapid installation of LED light fittings. Utilising a series of pre-cut cable lengths and joining adapters, the Aqualux QuickConnect system facilitates the installation of any of the Lumena products without the need for soldering, cable-cutting or any of the other time consuming tasks generally associated with outdoor lighting installations.

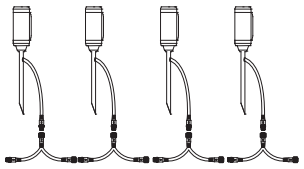
System Features:

- Rapid light fitting installation
- Water Resistant, Stainless Steel Connections
- 1M / 3M / 5M Interconnect Lengths
- Available as an integrated option on any Lumena family product

Aqualux QuickConnect™

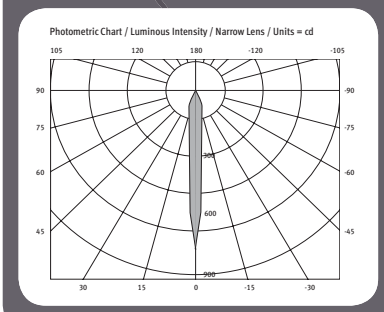
› Rapid Installation System
› Stainless Steel Connectors
› 1M / 3M / 5M Intervals
› Heavy Duty PVC Cable
› 0.75mm Conductors

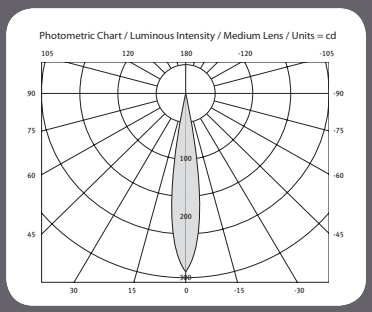
Available on all Lumena Products

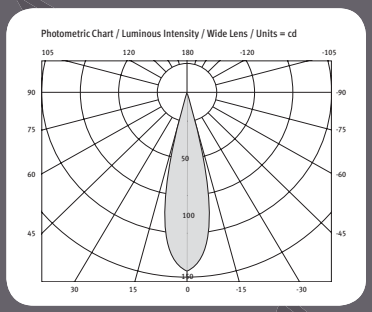


Photometric Charts

Single 3W LED Warm White - Narrow / Medium / Wide







aqualux outdoor lighting

Lumena

AQL-300

Wall Mount Up / Down Light

Product Information

Product

AQL-300 Wall Mount Up / Down Light

Description

The AQL-300 series is the classic wallmount light redefined. Providing an elegant, contemporary version of this traditional fitting, the AQL-300 is equally at home in bars, clubs and hotels as it is in fine residences.

Lamp Options

3W or 9W LED or MR11 Halogen Configurations.

Features

- IP67 Rating
- Hard Anodised Machined 6063-T6 Aluminium
- Aqualux 3-Year Warranty
- 1M Silicon / Teflon Cable
- 10 - 30V AC/DC Integrated LED Driver

Anodised Colour Options

Custom colours available on request

G2 B2 C1 BK

Lamp Options

LED

Power Options

3 x 3W Array (9W)
1 x 3W (3W)

Colour Options

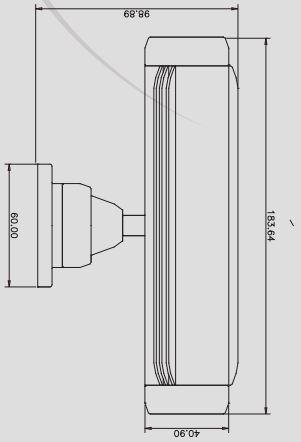
2900K Warm White (WW)
4000K Cool White (CW)
Red (R) / Green (G) / Blue (B)

Beam Options

10° Narrow (N)
25° Medium (M)
40° Wide (W)

Halogen

MR11 20W / 30 Degrees



Related Products / Lumena Range

- AQL-100 Inground Uplight with Spike
- AQL-200 Surface Mount Down Light
- AQL-150 Surface Decklight
- AQL-250 Surface Mount FlexHead Light

aqualux outdoor lighting

Lumena

AQL-300

Wall Mount Up / Down Light

Colour Options

The Lumena range is available in a wide selection of colours. Standard colours are detailed below, but please contact us for custom colour enquiries. Dark Grey, Dark Bronze, Clear and Black are suitable for exterior use. Other colours are suitable only in shaded situations out of direct sunlight

G2 B2 C1 BK

How to Order

Order Code Details

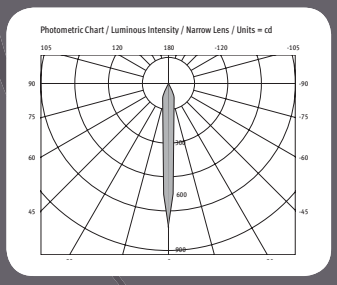
AQL-300-[G2/B2/C1/BK/CUSTOM]-[WW/CW/R/G/B]-[N/M/W]-[9W]

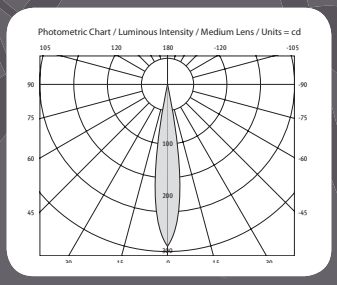
Example Code for a Clear Body, 3W Blue LED in Medium Beam:

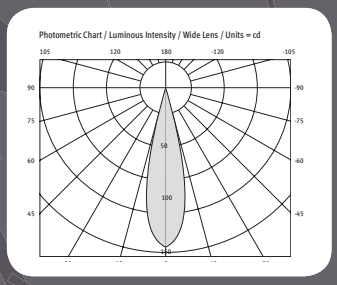
AQL-300-C1-B-M

Photometric Charts

Single 3W LED Warm White - Narrow / Medium / Wide







aqualux outdoor lighting

Phoenix ASL-03

ASL-03

Brass Inground Spotlight

Product Information Sheet

Product Code

- ASL-03 / ASL-03-B
- ASL-03-LED-3W / ASL-03-LED-9W

Product Description

The ASL-03 brass spike light is a solid-brass spotlight with applications in a variety of in-garden scenarios. Built to last for years in the Australian environment, the ASL-03 is also available with a black powder-coat option and is sealed to IP65.

Product Features

- IP65 Rating
- 20W/35W MR16 Halogen, 3W or 9W LED
- Aqualux 3 Year Warranty
- 2-core Silicon / Teflon Lead 1M
- Black Powder Coat Option
- LED Option includes 10V - 30V AC/DC Driver
- Assembled in Australia

Product Options

Halogen Lamp Options

20W / 35W MR16 Halogen- Included

LED Options

2700K, 4500K — 3W or 9W

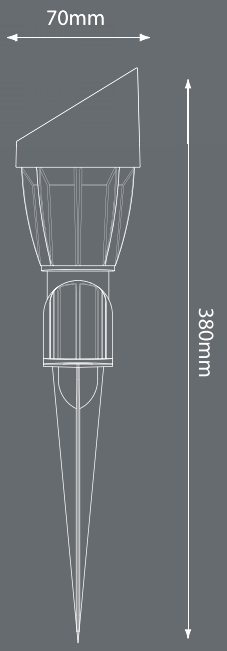
Red, Green, Blue — 3W Only

Lens Options

Narrow 10° | Medium 25° | Wide 40°

Other Info

- QuickConnect Available on LED Versions only.
- LED units are factory sealed.
- Custom options available - ring to enquire

Related Products

- Phoenix Cast Brass Family
- Columba Copper Family