Arpool Coral

TECHNOLOGY

Flow Sense

A built-in protector against power-related issues, ensuring lasting performance and safety.

Split & Seal

Uses protective polymers to shield Filix products from water and moisture, boosting durability and resilience.

Heat Sense

Automatically reduces LED power at high temperatures, ensuring longevity and safety in Filix products.

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Specification Sheet

UL STD 676 swimming pool rated
CSA C22.2#89 swimming pool rated
IP68

LUMINAIRE FEATURES

Design and Application

- Small and medium-scale pools and water features
- Low output recessed accent light

Mechanical details

- IK10 AISI316L trim
- IP68, rated for permanent submersion
- Maximum installation depth up to 5m (16')
- AISI316L stainless steel body
- Suitable for chlorine and marine environments
- Supplied with 3m(10') oil and water resistant feed cable as standard
- Recessed installation secured with A4 grade srews
- Equpiotential bonding point available with stainless steel housing

Electrical details

- LED Lifetime TM-21 @ 105°C L80(24K) = 145,000 hours
- Operating temperature: -20°C (-28°F) to +50°C (122°F)
- LED CRI: >85
- 3 step MacAdam
- Remote power supply
- Low voltage operation

Sustainabilty

- Recyclable material

Controls

- DMX, with compatible LED power supply
- DALI, with compatible LED power supply
- 0-10V, with compatible LED power supply
- Mains, with compatible LED power supply

Integrated systems

- Split & Seal
- Flow Sense
- Heat Sense

Links & Downloads

- List of available drivers
- Voltage drop calculator
- Fixture installation manual
- Housing installation manual
- CAD files
- IES-LTD data

Note

Underwater luminaire – must be constantly submersed.

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ORDERING INFORMATION

	MODEL	
●	**AC**	
	APPLICATION	
○	**TM**	• TM - Ø100mm x 90mm (Ø3,9" x 3,5")
	POWER	
○	**L**	• L - 9W, 2700/3000/4000K, 90 lm, 130lm source
		• L - 9W, TW (2200-4000K)
		• L - 9W, RGBW (W 4000K)
	COLOR TEMP.	
○	**27**	• 27 - 2700K
○	**30**	• 30 - 3000K
○	**40**	• 40 - 4000K
○	**T6**	• T6 - Tuneable white 2200K-4000K
○	**M5**	• M5 - RGBW (W 4000K)
	OPTICS	
○	**S30**	• S30 - Single (30°)
○	**S60**	• S60 - Single (60°)
○	**S120**	• S120 - Single (120°)
○	**D30**	• D30 - Double (30°)
○	**D60**	• D60 - Double (60°)
○	**D120**	• D120 - Double (120°)
	VOLTAGE	
○	**12**	• 12 - 12VDC fixture voltage
○	**24**	• 24 - 24VDC fixture voltage
	OPTIONS	
○	**03**	• 03* - Standard feed cable 3m (10')
○	**06**	• 06 - Luminaire supplied with 6m (20') feed cable
○	**09**	• 09 - Luminaire supplied with 9m (30') feed cable
○	**15**	• 15 - Luminaire supplied with 15m (50') feed cable
○	**20**	• 20 - Luminaire supplied with 20m (65') feed cable

Filix reserves the right to make technical changes without notice.

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MANDATORY ACCESSORIES

Housings

HOUSING	
AM382	• AM382 - Concrete Pool Installation housing back feed
AM382S	• AM382S - Concrete Pool Installation housing side feed
AM382SP	• AM382SP - Stainless Steel Pool installation housing
AM382LN	• AM382LN - Liner Pool installation housing
AC60C	• AC60C - Concrete installation housing for exterior applications

Power supplies

DRIVERS	
LINK	• List of available drivers

OPTIONAL ACCESSORIES

205117	• 205117 - Socket wrench for cable gland

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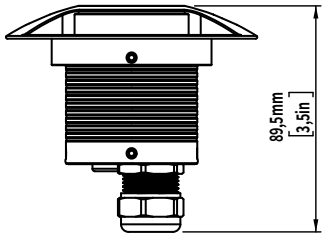
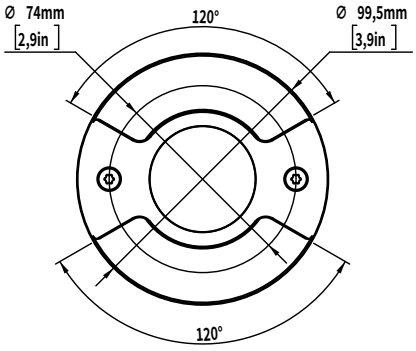
INSTALLATION DETAILS

Fixture





Made out of AISI316l stainless steel with additional passive coating, this luminaire is suitable for use in marine and chlorine environments. The standard luminaires are equipped with water and oil-resistant cables in various standard lengths. with integrated systems such as Flow Sense, Heat Sense, and Split & Seal, the luminaire has all the needed protective barriers.

Note:
For details on specific depths, tiling thickness and other please refer to both Installation instructions for fixture and housing.

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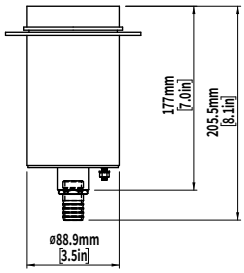
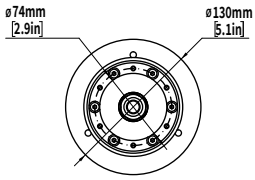
INSTALLATION DETAILS

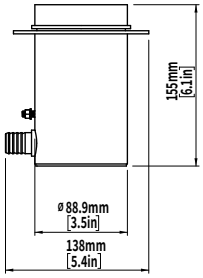
Housings

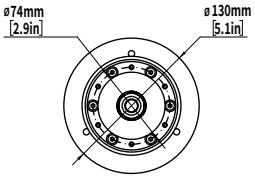
AM382 - Concrete Pool Installation back feed



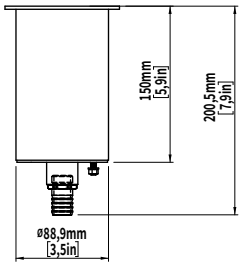


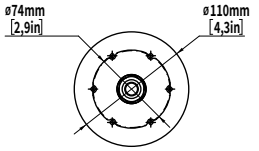
AM382S - Concrete Pool Installation side feed



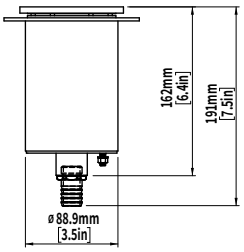


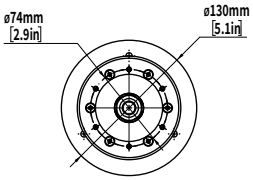
AM382SP - Stainless Steel Pool Installation



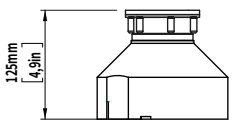


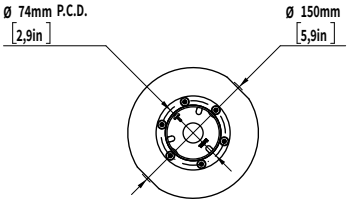
AM382LN - Liner Pool Installation





AC60C - Concrete exterior installation





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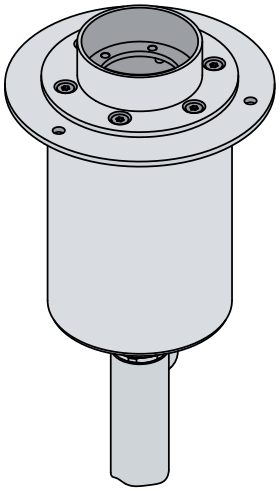
MANDATORY ACCESSORIES

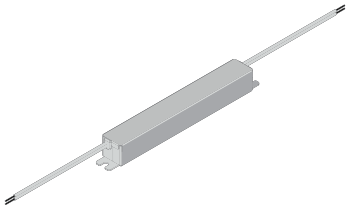
AISI316 installation housing

Stainless steel niche used to seamlessly integrate luminaire utilizing precision press fit with no exposed hardware. The housing, chemically etched and passivated, is suitable for marine and pool environments. Standard feature include a 1.5m oil and water-resistant cable conduit, streamlining the installation process. Due to its size, the housing's back end intentionally lacks a sealed cable gland. Contractors are advised to review installation instructions for proper guidance.



Power supply

A LED power supply, is an electrical device designed to control the power supplied to an LED or an array of LEDs. It plays a critical role in LED lighting systems as LEDs demand a specific type and level of electrical current or voltage for optimal operation. It's important to note whether a constant current or constant voltage LED power supply is required. The power supply should be installed in a dry and easily accessible area.



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Control

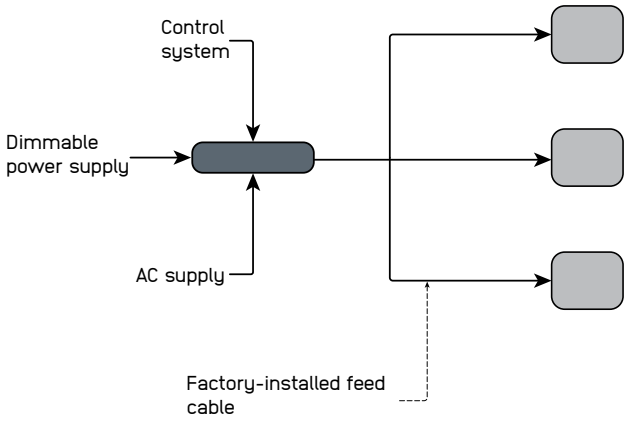
PWM SYSTEM TOPOLOGY - CONSTANT VOLTAGE

System components

- The luminaire is supplied with a factory-installed feed cable in standard lengths for connection to the PSU circuit, and mounting hardware as specified in the installation instructions.
- A remote constant voltage power supply (12V / 24V DC), DC distribution cabling between the PSU and luminaires (if required), junction boxes, connection infrastructure, and the control system (DALI, DMX, 0–10V or switching) must be provided by the installer or customer.
- Recomended components:
  - Surge protection on the AC side of the PSU
  - Appropriately sized DC cabling to limit voltage drop
  - Connectors and junction boxes suitable for the installation environment

System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



Addresing & dimming notes

- Constant voltage systems use a parallel connection topology typical for constant voltage lighting systems. Distribution layouts may include star topology, tree topology, or daisy-chain distribution.
- Individual device or channel addressing can be achieved by connecting each product to a separate output channel of the DALI or DMX dimmable power supply.
- The PSU adjusts output power according to the control signal using PWM dimming.
- Dimming options depend on the PSU and the selected control system.

Segment length and limitations

- The minimum controllable segment is one product
- Maximum cable length and number of luminaires depend on the PSU, total system wattage, conductor cross-section, and acceptable voltage drop.
- Voltage drop must remain within 10% of the nominal input voltage to ensure uniform light output.
- Dimming options depend on the PSU and the selected control system.

Fault tolerance

- Failure of the control system or communication bus does not interrupt luminaire operation if the PSU continues to supply power.
- Failure of one luminaire does not affect other luminaires connected to the same distribution line due to the parallel connection topology.
- System reliability depends on correct PSU sizing and proper electrical installation.