

Arpool Micro

TECHNOLOGY



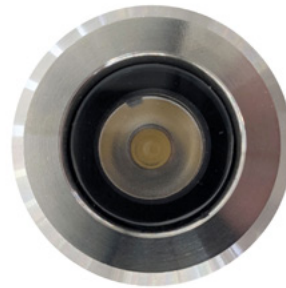
Split & Seal

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



Flow Sense

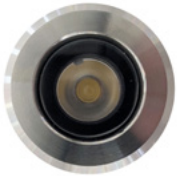
A built-in protector against power-related issues, ensuring lasting performance and safety





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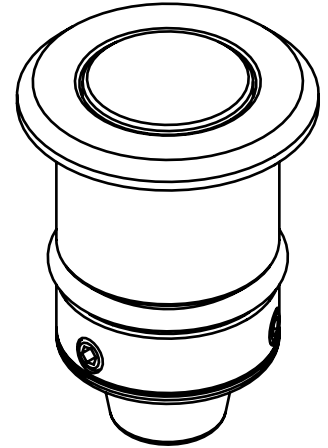
Specification Sheet



IP68

ISO 9227:2017 Salt Spray tested for 500 hours

UL STD 676 swimming pool rated



Ø35mm X H47mm

LUMINAIRE FEATURES

Design and Application

- Small decorative pools
- Fountains and water features

Mechanical details

- IK10 crystal-clear tempered glass, 8mm (0.31") thick
- 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 press-fit installation

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

Sustainability

- 87% Recyclable

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

Links & Downloads

- [List of available drivers](#)
- [Voltage drop calculator](#)
- [Fixture installation manual](#)
- [Housing installation manual](#)
- CAD file
- [IES-LTD data](#)

Note

Underwater luminaire – must be constantly submersed.



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ORDERING INFORMATION

MODEL

AU

APPLICATION

TM

- TM - Ø35mm x H-47mm (Ø1,37" x H-1,9")

POWER

L

- L - 1,5W, 2700/3000/4000K, 180 lm
- L - 1,5W, TW (2200K-4000K)

COLOR TEMP.

27

- 27 - 2700K

30

- 30 - 3000K

40

- 40 - 4000K

TW

- TW - Tunable white 2200K-4000K

OPTICS

SP

- SP - Spot 12°

NF

- NF - Narrow Flood 31°

WF

- WF - Wide Flood 48°

SPX

- SPX - Spot 12° + Hex

NFX

- NFX - Narrow Flood 31° + Hex

WFX

- WFX - Wide Flood 48° + Hex

INPUT TYPE

CC

- CC - 500mA constant current

OPTIONS

3

- 3 - Standard feed cable 3m (10')

6

- 6 - Luminaire supplied with 6m (20') feed cable

9

- 9 - Luminaire supplied with 9m (30') feed cable

20

- 20 - Luminaire supplied with 20m (65') feed cable

GLARE CONTROL

1

- 1 - Half Moon



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MANDATORY ACCESSORIES

Housings

HOUSING

AU

TAU

- AU - Stainless steel installation housing
- TAU - Technopolymer installation housing

Power supplies

DRIVERS

[LINK](#)

- List of available driver

OPTIONAL ACCESSORIES

SW

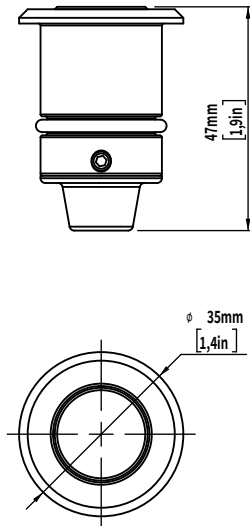
- SW - Socket wrench for cable gland



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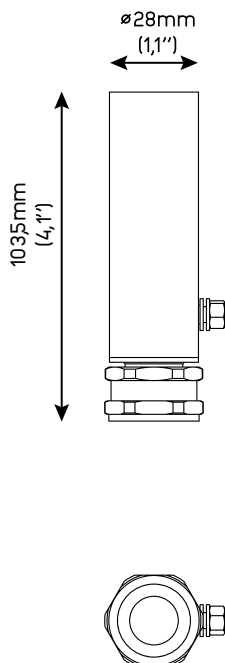
INSTALLATION DETAILS

Fixture

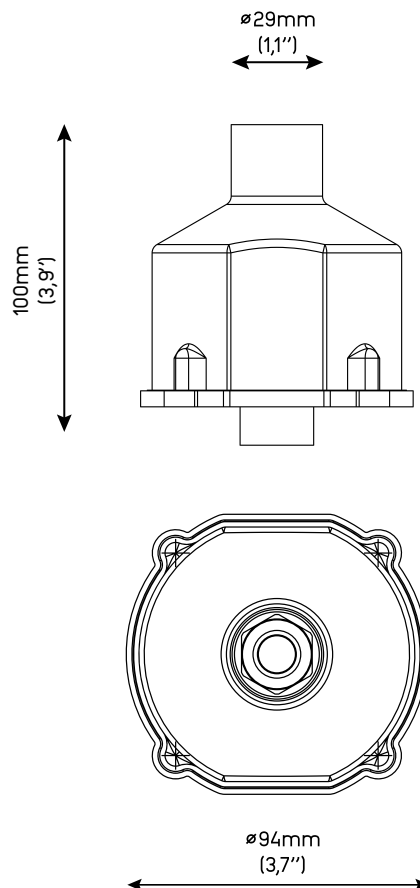


Housing

Stainless steel installation housing, art: AU



Technopolymer installation housing, art: TAU



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

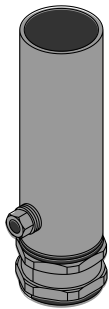


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MANDATORY ACCESSORIES

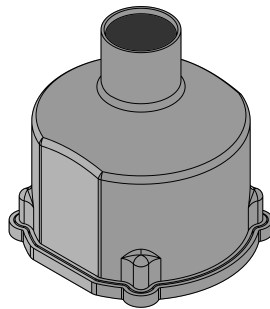
Stainless steel installation housing

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 features 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.



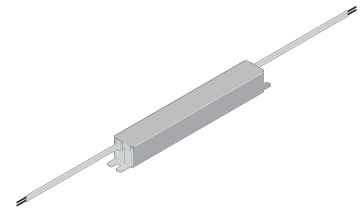
Technopolymer installation housing

The niche enables a smooth installation of the luminaire, featuring a precise press fit with no visible hardware. Constructed from durable technopolymer, it features a single cable entry and is suitable for both marine and pool environments. Standard features include a 1.5m oil- and water-resistant cable conduit, streamlining the installation process. The housing is IP68 rated with a sealing cable gland and is designed to accommodate 1.5m of cable to facilitate easier repairs.



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





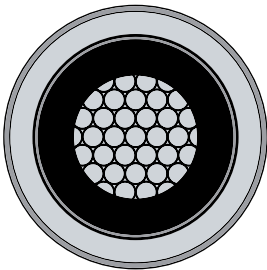
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GLARE CONTROL

Internal glare control:

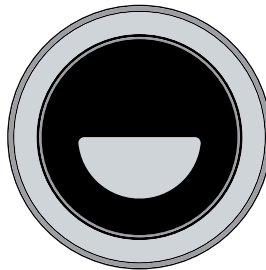
Hex louvre

Provides low glare control with 45% less lumen output than product without louvres. Best for use when there is no need for segment beam cut off such as in half moon



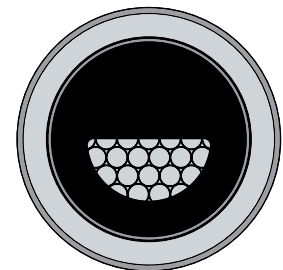
Halfmoon

Provides glare control by reducing lumen output and implementing a light beam cut-off, resulting in a 50% reduction in stray light and minimized light dispersion in undesirable directions.



Honeymoon

Combines the benefits of Hex Louvre and Halfmoon, offering both reduced glare and controlled light dispersion for comprehensive glare management.

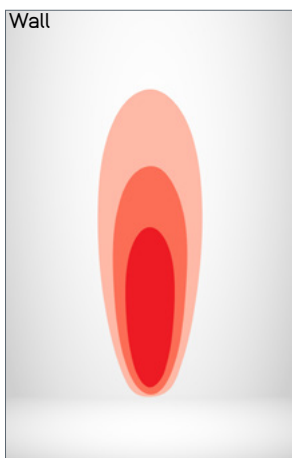
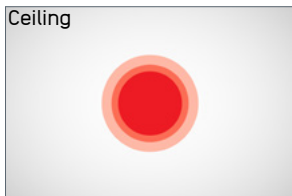




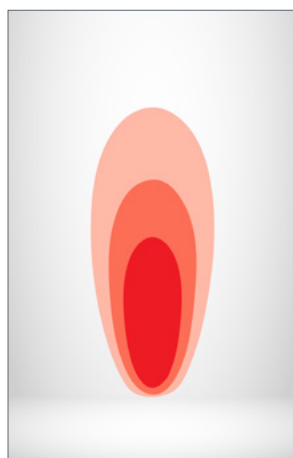
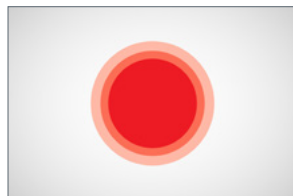
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OPTICS

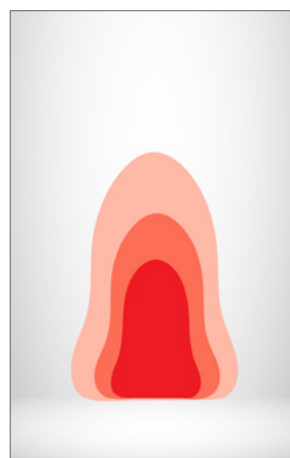
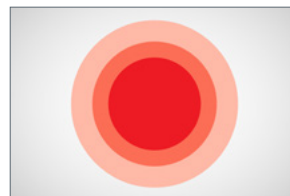
Spot
Angle: 12°
Delivered lumen: 180lm



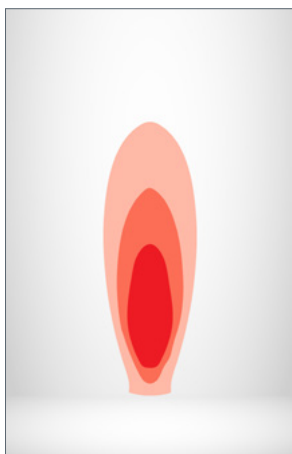
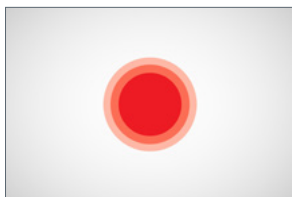
Near Flood
Angle: 31°
Delivered lumen: 125lm



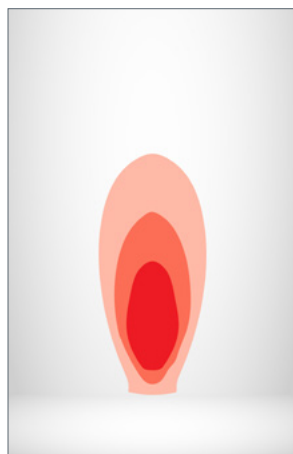
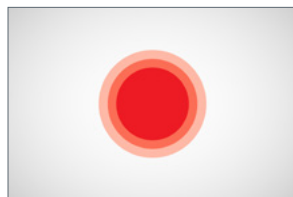
Wide Flood
Angle: 48°
Delivered lumen: 80lm



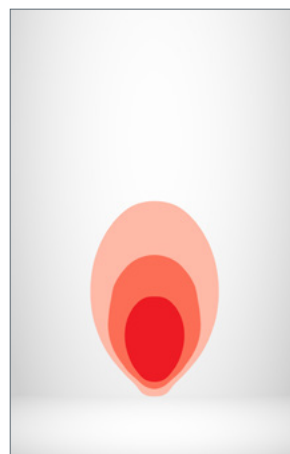
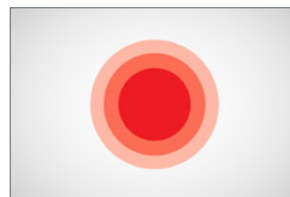
Spot + Hex
Angle: 12°
Delivered lumen: 140lm



Flood + Hex
Angle: 31°
Delivered lumen: 82,5lm



Wide + Hex
Angle: 48°
Delivered lumen: 55lm



Notes

- Light output values based on 1,5W and 4000K product



Control

ON/OFF SYSTEM TOPOLOGY

Integrated systems:

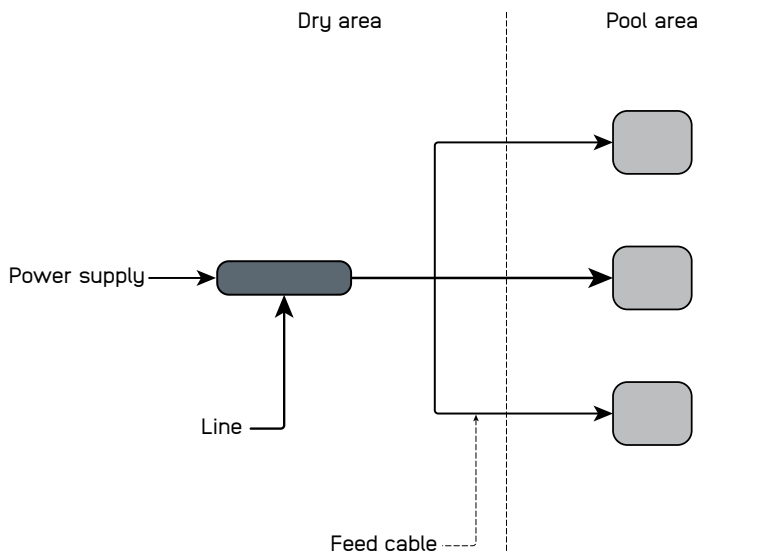
- Flow Sense
- Split & Seal

System components

- Wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

System topology

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



Addressing & dimming notes

- ON/OFF system does not allow device addressing
- Dimming of the product not available in this system

Segment length and limitations

- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Used in single colour applications

Fault tolerance

- In a serial connection, if one product fails, the rest of the system stops working.



Control

0-10V SYSTEM TOPOLOGY

Integrated systems:

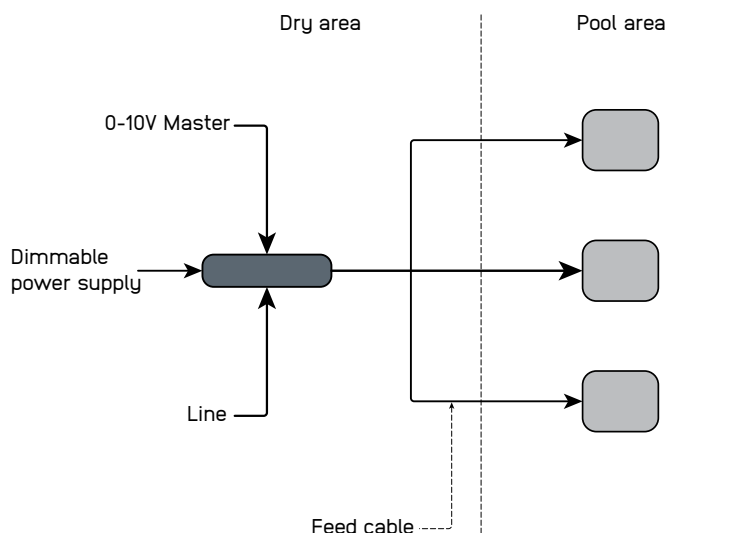
- Flow Sense
- Split & Seal

System components

- The 0-10V system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

System topology

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



Addressing & dimming notes

- Without 0-10V dimmable power supply product can not be controlled
- Individual device addressing can be achieved by connecting each product to a separate output channel of the 0-10V dimmable power supply.
- Logarithmic and linear dimming options depend on the 0-10V dimmable LED power supply
- The dimming range is determined by the 0-10V dimmable LED power supply

Segment length and limitations

- The minimum controllable segment is one product.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Used in single colour applications

Fault tolerance

- If the LED driver is source type and in the case the control line doesn't have power the light fitting will turn at 100%. in the opposite case where the LED power supply is sink type, light will not work
- In a serial connection, if one product fails, the rest of the system stops working.



Control

DALI SYSTEM TOPOLOGY

Integrated systems:

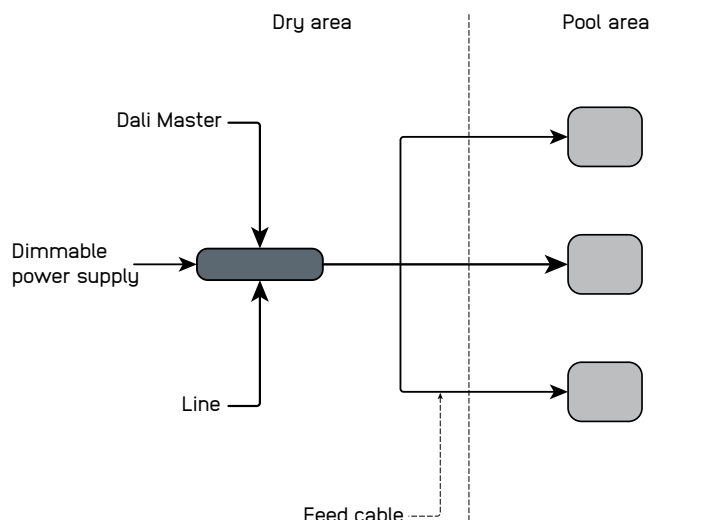
- Flow Sense
- Split & Seal

System components

- The DALI system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

System topology

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



Addressing & dimming notes

- Without a DALI dimmable power supply, the product cannot be controlled.
- Individual device addressing (short address) and group addresses for up to 16 groups can be achieved by connecting each group of products to a separate output channel of the DALI dimmable power supply. A broadcast address targets everything on the line of the DALI dimmable LED driver.
- Logarithmic and linear dimming options depend on the DALI dimmable LED power supply.
- The dimming range is determined by the DALI dimmable LED power supply.

Segment length and limitations

- The minimum controllable segment is one product.
- A DALI dimmable power supply cannot control fittings individually unless they are connected to separate channels of a DALI dimmable power supply.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Suitable for both single-color and multi-color applications.

Fault tolerance

- In a serial connection, if one product fails, the rest of the system stops working.



Control

DMX SYSTEM TOPOLOGY

Integrated systems:

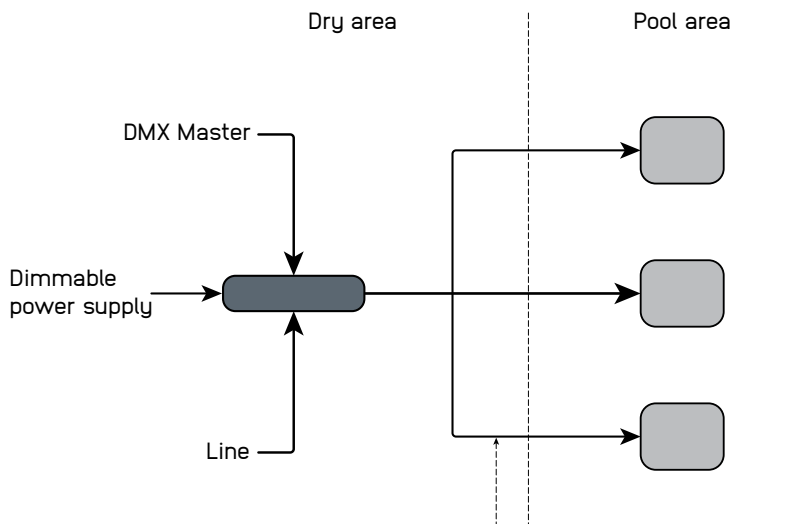
- Flow Sense
- Split & Seal

System components

- The DMX system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

System topology

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



Addressing & dimming notes

- The minimum controllable segment is one product.
- A DMX dimmable power supply cannot control fittings individually unless they are connected to separate channels of a DMX dimmable power supply.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.

Segment length and limitations

- Without a DMX dimmable power supply, the product cannot be controlled.
- Individual device addressing (short address) and group addresses can be achieved by connecting each product or a group to a separate output channel of the DMX dimmable power supply.
- Logarithmic and linear dimming options depend on the DMX dimmable LED power supply.
- The dimming range is determined by the DMX dimmable LED power supply.
- Suitable for both single-color and multi-color applications.

Fault tolerance

- In a serial connection, if one product fails, the rest of the system stops working.