FILIX
FILIX LIGHTING USA INC

Faro Square 35

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.

ASHRAE/IEC 90.1 Compliant
Defines energy efficiency standards for building design, focusing on insulation, HVAC, and sustainable energy use.

Qualicoat Seaside Class Powder Coat
Enhanced powder coating for aluminum, specifically formulated for superior durability and optimal performance in marine environments, lasting for over 10 years.

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Specification Sheet

ETL Intertek (Pending)
IP66/IP67

LUMINAIRE FEATURES

Design and Application

- Square outdoor projector
- For small-scale facades, trees and accent lighting

Mechanical details

- IK08 crystal-clear tempered glass, 4 mm (0.15") thick
- IP66 protected against powerful water jets
- IP67, rated for temperary submersion (30min) in water up to 1m
- 3G vibration rating resistance (ANSI C136.32)
- Die-Cast aluminium body
- Double surface protected with anodised base layer and powder coat top layer in Qualicoat Seaside standard
- Surface Installation
- Supplied with 0.5 m (1.64') oil and water resistant feed cable as standard

Electrical details

- LED Lifetime TM-21 @ 105°C
  L80(24K) = 145,000 hours
- Operating temperature -40°C (-40°F) to +50°C (122°F)
- CRI >85
- 3 step MacAdam
- Remote power supply
- Low voltage operation
- Class III product

Controls

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

Sustainability

- Recyclable material
- Repairable
- Dark Sky compliant

Integrated Systems

- Split & Seal
- Heat Sense
- Flow Sense

Links & Downloads

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

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ORDERING INFORMATION

MODEL	
FFS03	
POWER	
L	• L - 3W, 300 lm
H	• H - 6W, 600 lm
COLOR TEMP.	
AM	• AM - Amber
27	• 27 - 2700K
30	• 30 - 3000K
T6	• T6 - Tunable white 2200K-4000K
OPTICS	
SP	• SP - Narrow Spot (8X8°)
MS	• MS - Medium Spot (15X15°)
NF	• NF - Narrow Flood (30x30°)
MF	• MF - Medium Flood (40x40°)
W	• W - Wide (60x60°)
SY	• SY - Spot Elliptical (10°x20°)
NY	• NY - Narrow Elliptical (10°x40°)
MY	• MY - Medium Elliptical (10°x60°)
INPUT OPTIONS	
CC	• CC - Constant current
24	• 24 - 24VDC
CONTROL	
P	• P - PWM Operation
FINISH	
W	• W - RAL9003 Structure (Signal White)
S	• S - RAL7044 Structure (Silky Grey)
A	• A - RAL7016 Structure (Antracite Grey)
B	• B - RAL9005 Structure (Jet Black)
D	• D - RAL 1015 Structure (Desert Sand)
G	• G - RAL 6002 Structure (Leaf Green)

INTERNAL LIGHT CONTROL	
0	• 0 - No internal light control
1	• 1 - Microlouvre
2	• 2 - Hex louvre
3	• 3 - Discrete sight
4	• 4 - Half moon
5	• 5 - Honeymoon
EXTERNAL LIGHT CONTROL	
0	• 0 - No external light control
1	• 1 - Snoot
INSTALLATION TYPE	
B	• B - Base
E	• E - Spike
F	• F - Tree Strap
CABLE LENGTH OPTIONS	
00	• 0.5 - standard feed cable 0.5m (1,6')
03	• 3 - with 3m (10') feed cable
06	• 6 - with 6m (20') feed cable
09	• 9 - with 9m (30') feed cable
15	• 15 - with 15m (50') feed cable
20	• 20 - with 20m (65') feed cable

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MANDATORY ACCESSORIES

Power supplies

DRIVERS
LINK

- List of available drivers

OPTIONAL ACCESSORIES

Various Accessories

VARIOUS
203953

- 203953 - Safety wire rope

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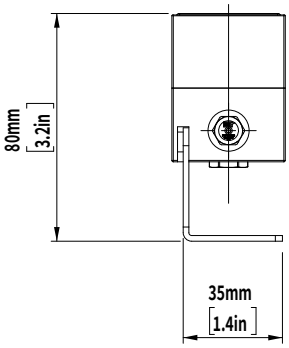
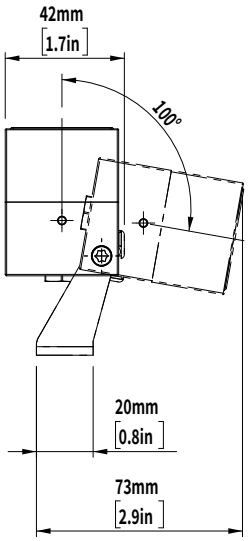
INSTALLATION DETAILS

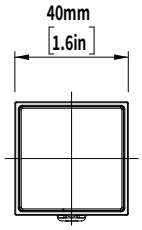
Fixture

Fixture

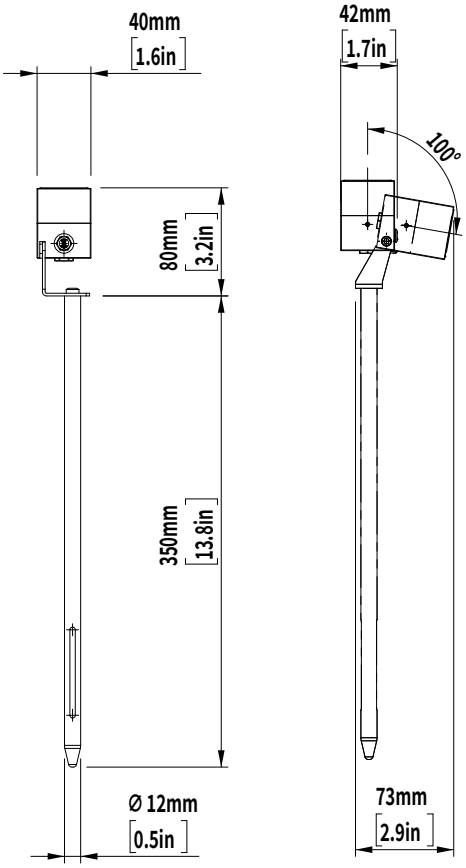
Die-cast aluminium projector for façade, architectural, landscape, and accent lighting, built for harsh outdoor use with IK08 tempered glass and IP66/IP67 protection. Double-protected finish (anodised base + Qualicoat Seaside powder coat) and a 0.5 m oil- and water-resistant feed cable are standard, with integrated Flow Sense, Heat Sense, Split & Seal, and power protection for long-term reliability. DMX/DALI/0–10V/mains control is supported with a compatible LED power supply.



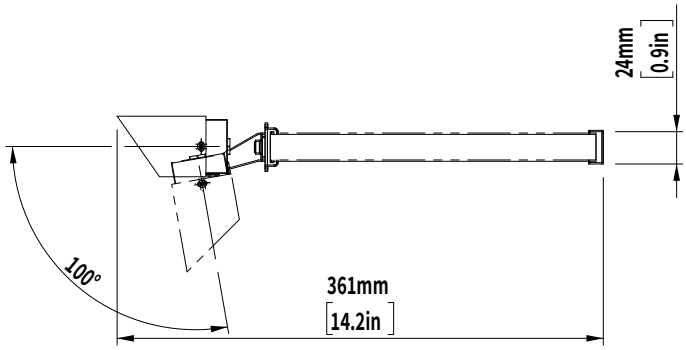


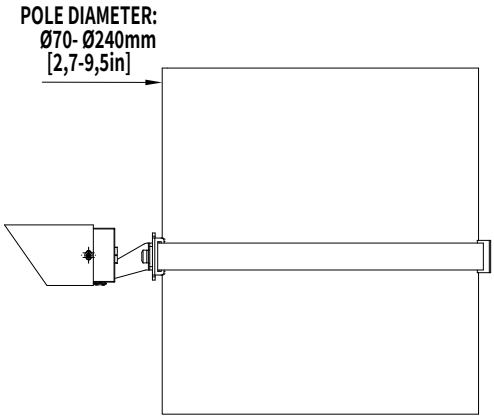


Spike installation



Tree strap/pole installation





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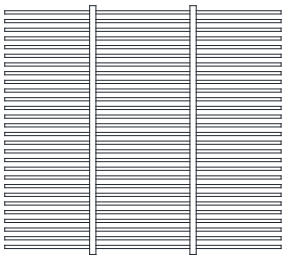
INTERNAL LIGHT CONTROL

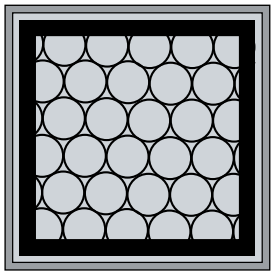
Microlouvre

Provides low glare control with 30% lesslumen output than product without louvres.best for use where pedestrians are at least6m (20ft) from the light source.



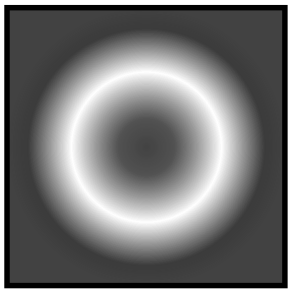
Hex louvre

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



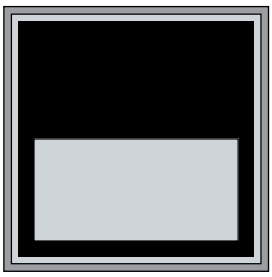
Discrete sight

Provides low glare control with 60% less lumenoutput than product without louvres. best foruse in high trafic areas where pedestirans areat least 0,5m (1,64ft) away from the source.



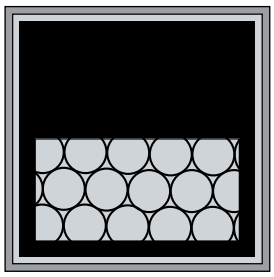
Halfmoon

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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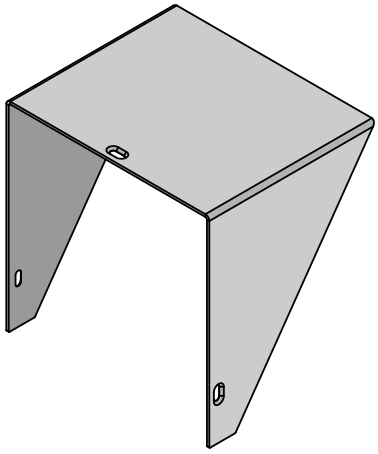
EXTERNAL LIGHT CONTROL

Snoot

External attachment providing enhanced glare control, effectively shielding the light source to reduce direct glare and prevent light spill in unwanted directions.



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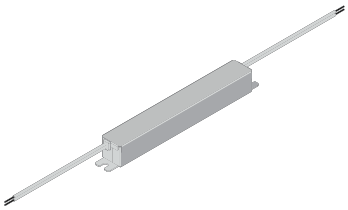
MANDATORY ACCESSORIES

Power supply

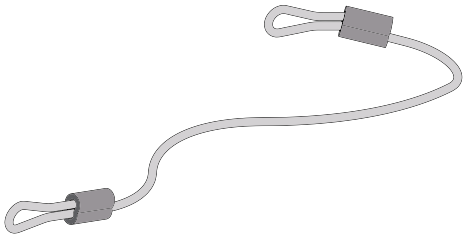
A LED power supply, is an electrical device designed to control the power supplied to an LED or an array of LEDs. It plays a critical role in LED lighting systems as LEDs demand a specific type and level of electrical current or voltage for optimal operation. It's important to note whether a constant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



OPTIONAL ACCESSORIES

Safety wire rope

300mm long safety bond for added security during high-altitude installations



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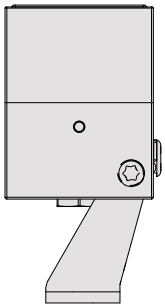
INSTALLATION OPTIONS

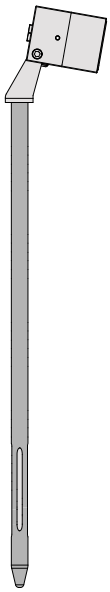
Base installation

Securely mounts the projector on a stable base, integrating wiring for a clean and permanent setup, ideal for environments requiring stable installations.



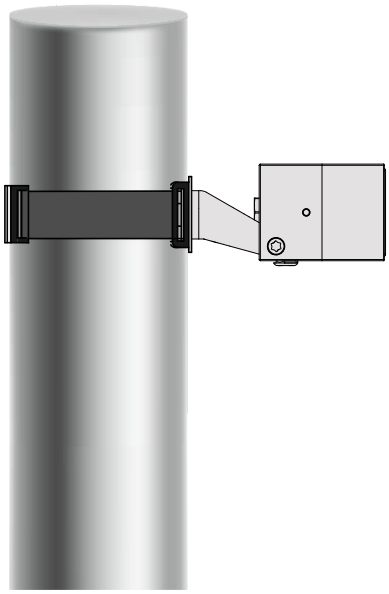
Spike installation

Ground spike-based setup allows easy insertion into the soil, perfect for flexible outdoor applications and landscape lighting.



Tree strap installation

Adjustable metal strap secures the projector to a tree or branch, providing a versatile, non-invasive installation for natural settings.



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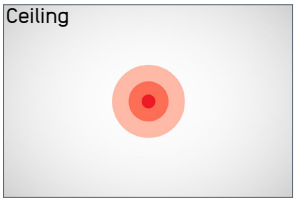
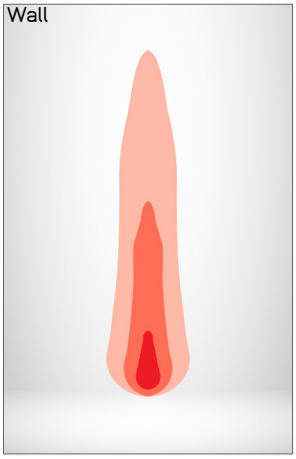
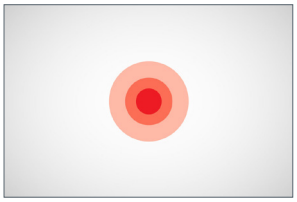
OPTICS

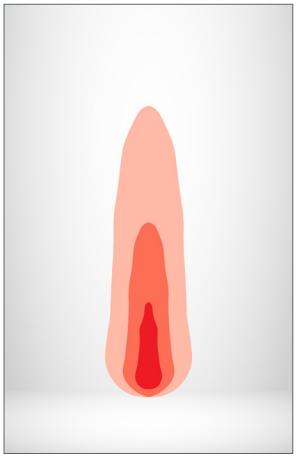
Narrow Spot
Angle: 8°x8°
Delivered lumen: 330lm



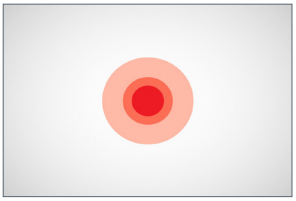


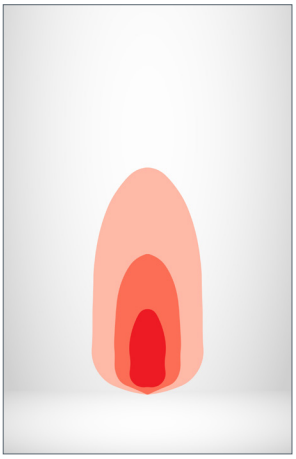
Medium Spot
Angle: 15°x15°
Delivered lumen: 310lm



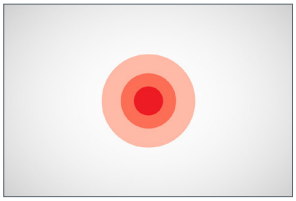


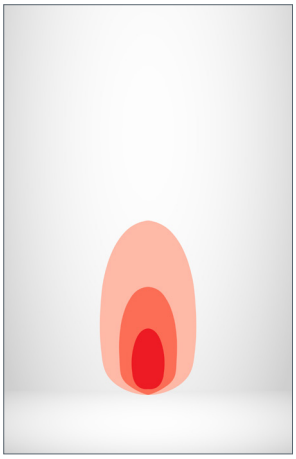
Narrow Flood
Angle: 30°x30°
Delivered lumen: 300lm



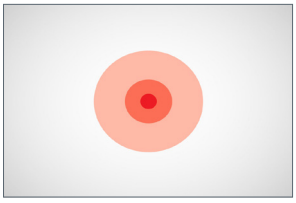


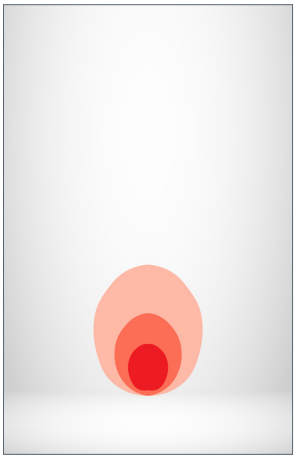
Medium Flood
Angle: 40°x40°
Delivered lumen: 270m



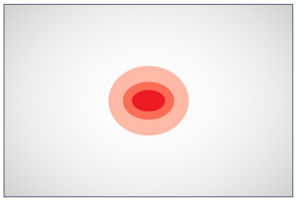


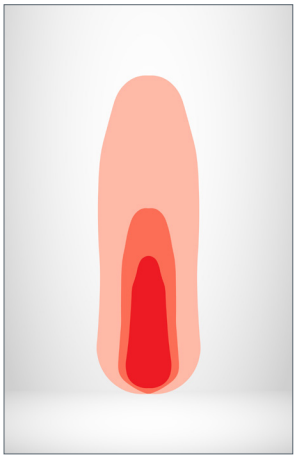
Wide
Angle: 60°x60°
Delivered lumen: 260lm



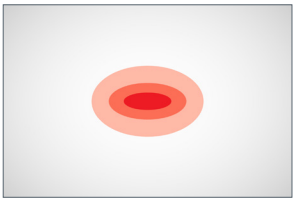


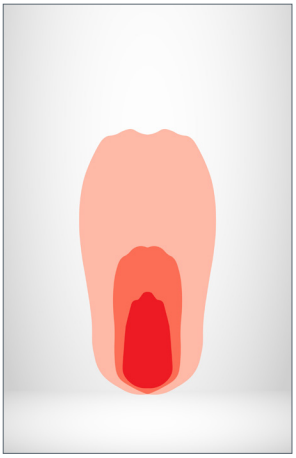
Spot Asymmetric
Angle: 10°x20°
Delivered lumen: 300lm



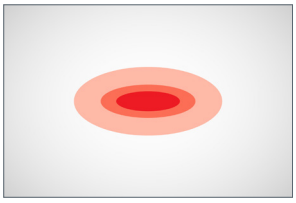


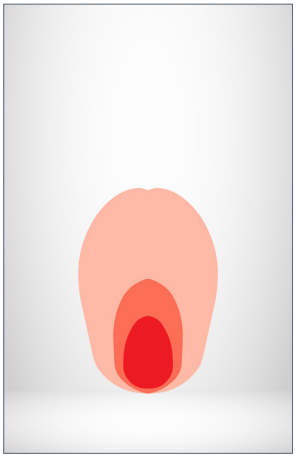
Narrow Asymmetric
Angle: 10°x40°
Delivered lumen: 290lm





Medium Asymmetric
Angle: 10°x60°
Delivered lumen: 280lm





Notes

- Light output values based on 3W and 3000K, CC product

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Control

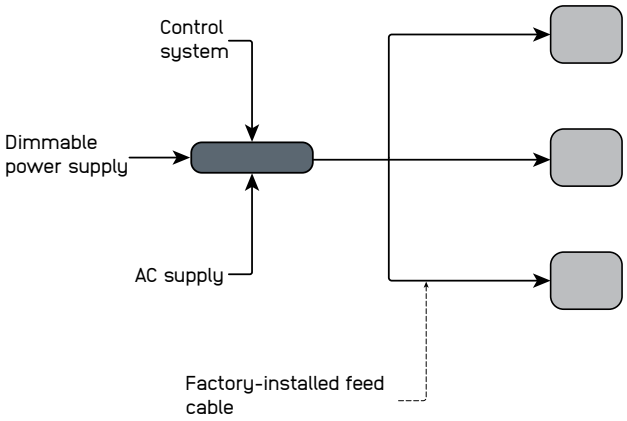
PWM SYSTEM TOPOLOGY - CONSTANT VOLTAGE

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.

Control

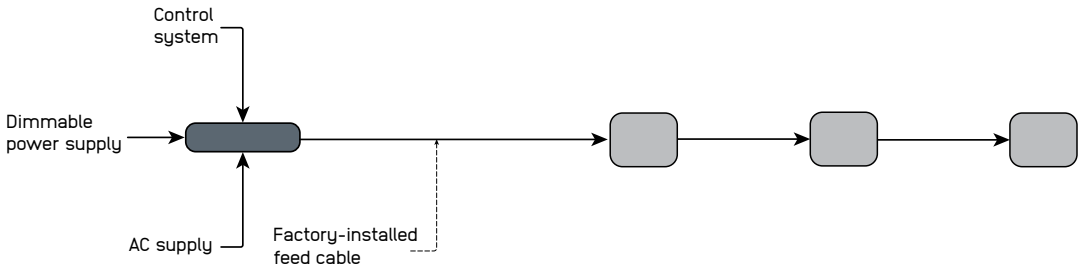
SYSTEM TOPOLOGY - CONSTANT CURRENT

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 compatible constant current LED driver, series connection cabling between the driver and luminaires, 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 driver
  - Connectors and junction boxes suitable for the installation environment
  - Drivers with compatible dimming interfaces required by the project

System topology

- Constant current systems use a series connection topology where luminaires are connected sequentially within a single driver circuit.



Addresing & dimming notes

- Individual device or channel addressing can be achieved by connecting each product to a separate output channel of the DALI or DMX compatible driver.
- The PSU adjusts output current according to the control signal.
- Dimming options depend on the PSU and the selected control system.

Segment length and limitations

- The minimum controllable segment is one product
- Maximum number of luminaires depends on the driver output current and total forward voltage of the connected luminaires
- The total forward voltage must remain within the driver operating range

Fault tolerance

- Failure of the control system or communication bus does not interrupt luminaire operation if the driver continues to supply current.
- Failure of one luminaire may interrupt operation of the entire circuit due to the series connection topology.
- System reliability depends on correct driver selection and proper electrical installation.