

Faro Round 100

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.



Faro Round 100

Specification Sheet



UL STD 1598
IP66/IP67

Design and Application

- Facade lighting
- Architectural lighting
- Landscape lighting

Mechanical details

- IK08
- IP66 / IP67
- 3G vibration rating resistance (ANSI C136.32)
- Material: Die-Cast aluminum body
- Double surface protected with anodised base layer and powder coat top layer in Qualicoat Seaside standard
- Surface Installation
- Supplied with 0,5 m oil and water resistant feed cable

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
- On site LED module replacement
- On site engine replacement

Controls

- DMX, Integral or with compatible LED power supply,
- DALI, Integral or with compatible LED power supply,
- 0-10V, Integral or 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](#)



Faro Round 100

ORDERING INFORMATION

MODEL

FR10

POWER

L • L - 20W, 2000 lm

H • H - 30W, 3000 lm

COLOR TEMP.

AM • AM - Amber

27 • 27 - 2700K

30 • 30 - 3000K

T6 • T6 - Tunable white 2200K-4000K

M4 • M4 - RGBW (W 3000K)

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°).

DA • DA - Digitally Adjustable (DMX only)

INPUT OPTIONS

CC • CC - Constant current

24 • 24 - 24VDC

110 • 110 - 110-277VAC, 60Hz

230 • 230 - 220-240VAC, 50Hz

CONTROL

0 • 0 - ON-OFF operation

X • X - DMX Operation

D • D - DALI Operation

V • V - 0-10V operation

P • P - PWM operation (Low voltage only)

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

6 • 6 - Silhouetteform

EXTERNAL LIGHT CONTROL

0 • 0 - No external light control

1 • 1 - Snoot

INSTALLATION TYPE

B • B - Base

E • E - Spike

F • F -Tree Strap

G • G - Pole Base



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MANDATORY ACCESSORIES

Power supplies

DRIVERS

[LINK](#)

- List of available drivers

OPTIONAL ACCESSORIES

Various Accessories

VARIOUS

203953

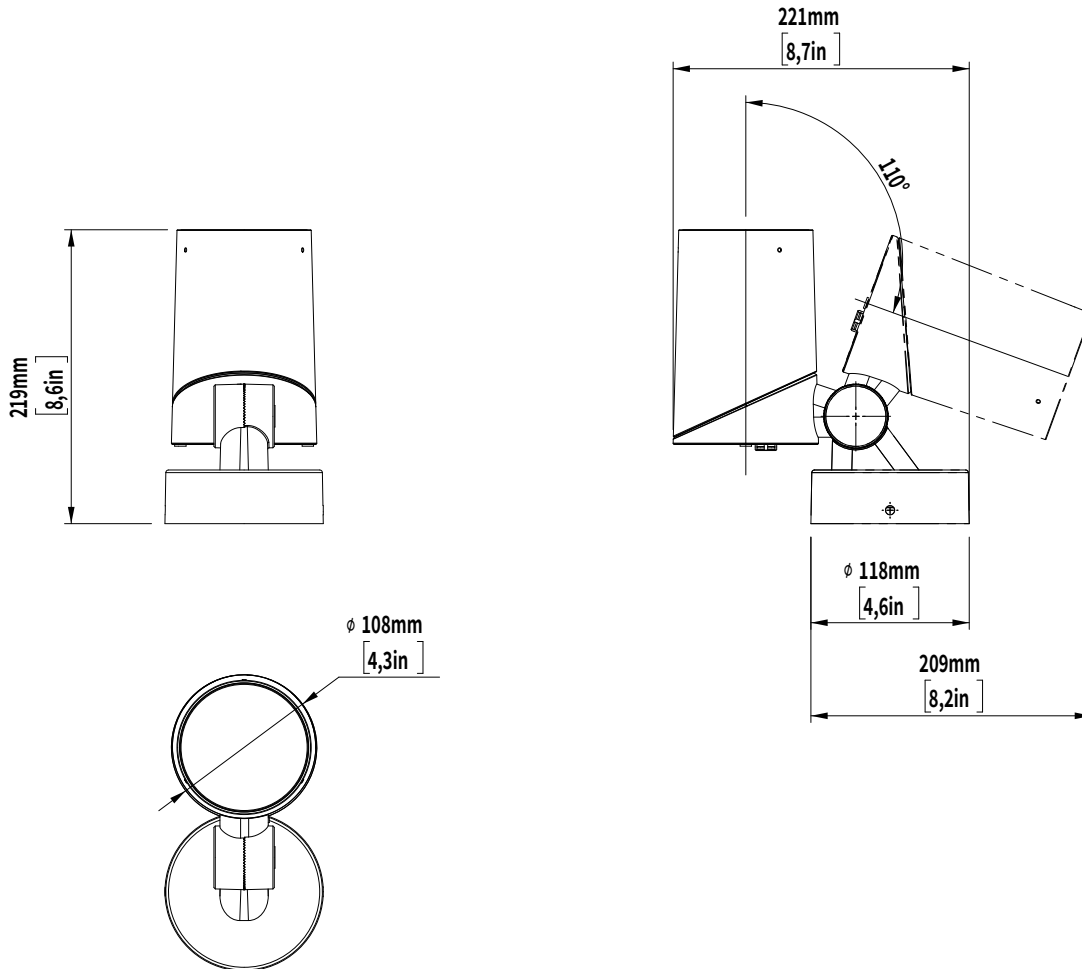
- 203953 - Safety wire rope



Faro Round 100

INSTALLATION DETAILS

Fixture



Adjustable tilt

Compliant with ANSI C136.31 standard for vibration conditions on bridges and overpasses. Designed to allow product tilt of 125°. The installation should be performed as per local codes and different applications but the bracket allows adjustment in terms of position on the product and with slots that are designed for 6mm bolt.

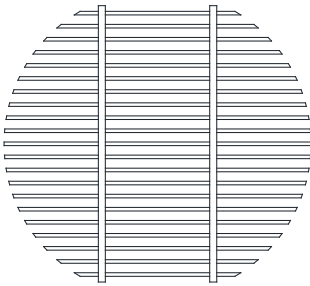


Faro Round 100

INTERNAL LIGHT CONTROL

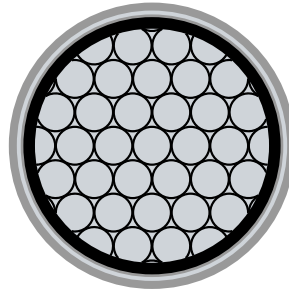
Microlouvre

Provides low glare control with 30% less lumen output than product without louvres. Best for use where pedestrians are at least 6m (20ft) from the light source



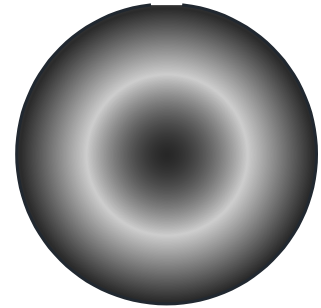
Hex louvre

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



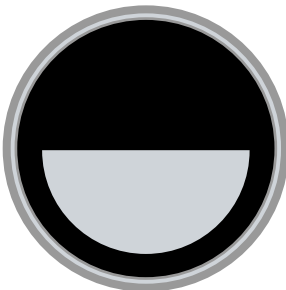
Discrete sight

Provides low glare control with 60% less lumen output than product without louvres. Best for use in high traffic areas where pedestrians are at least 0,5m (1,64ft) away from the source



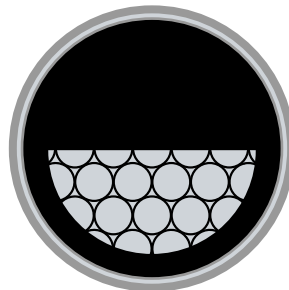
Halfmoon

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.



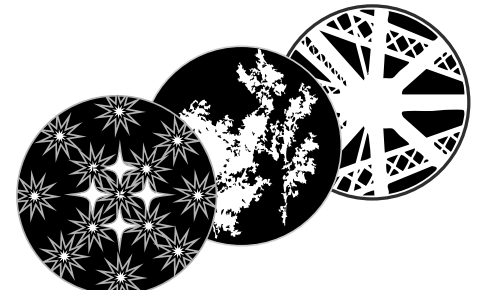
Honeymoon

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



Silhouetteform

An optical accessory designed to produce a soft, blurred silhouette on the target surface. Ideal for ambient effects, the insert diffuses the beam into abstract or naturalistic shapes without hard edges.



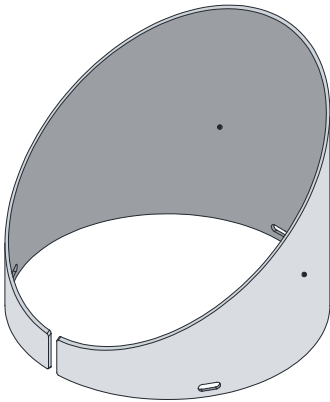


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EXTERNAL LIGHT CONTROL

Snoot

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



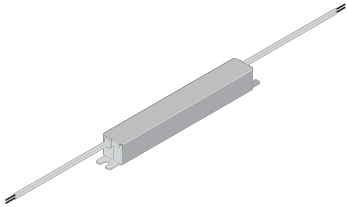


Faro Round 100

OPTIONAL ACCESSORIES

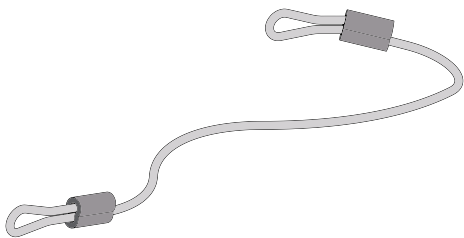
Power supply

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.



Safety wire rope

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



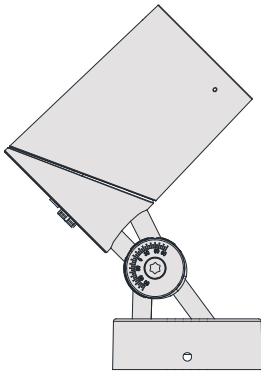


Faro Round 100

INSTALLATION OPTIONS

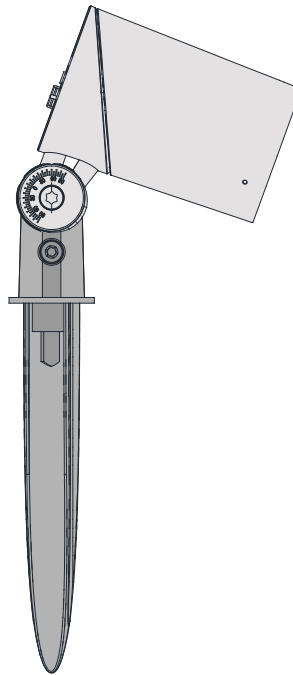
Base installation

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



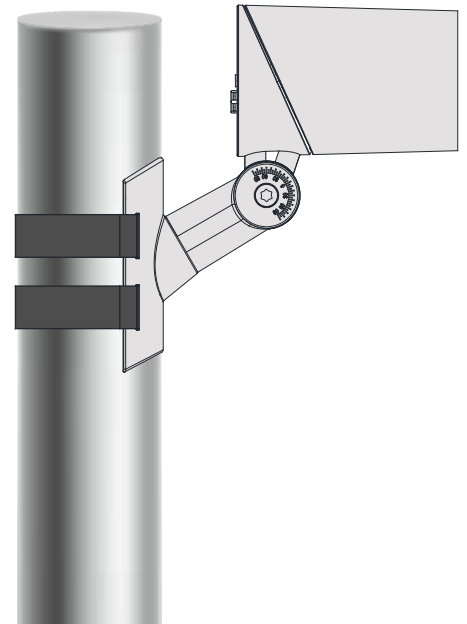
Spike installation

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



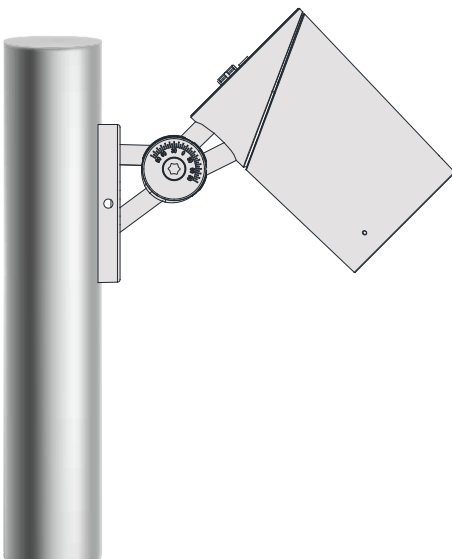
Tree strap installation

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



Pole base installation

Attaches the projector to a pole with an integrated wiring base, suitable for elevated, stable installations like street lighting.





Faro Round 100

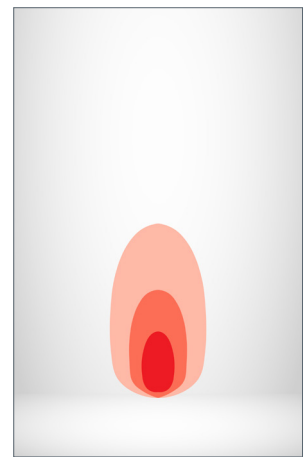
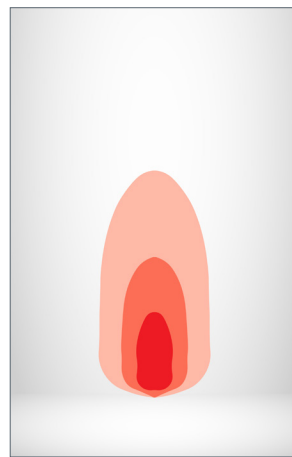
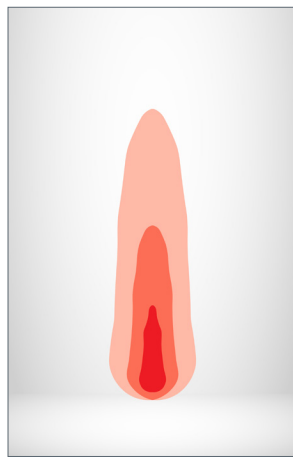
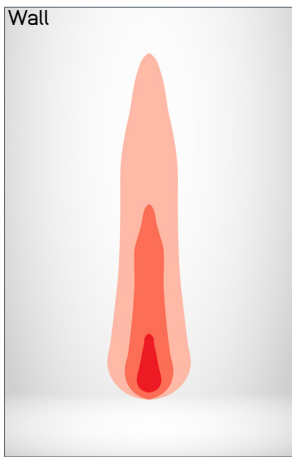
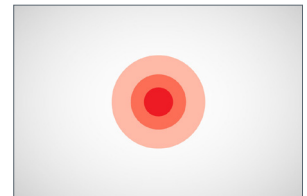
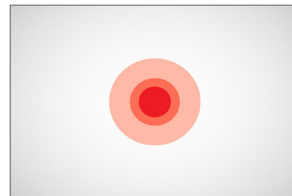
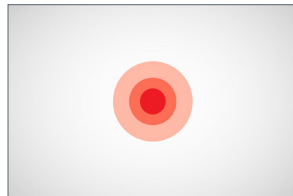
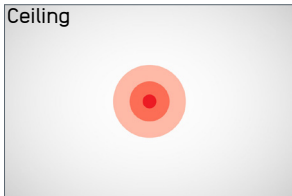
OPTICS

Narrow Spot
Angle: 8°x8°
Delivered lumen: 3000lm

Medium Spot
Angle: 15°x15°
Delivered lumen: 2500lm

Narrow Flood
Angle: 30°x30°
Delivered lumen: 2300lm

Medium Flood
Angle: 40°x40°
Delivered lumen: 2225lm

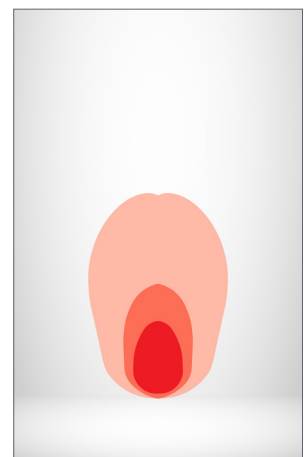
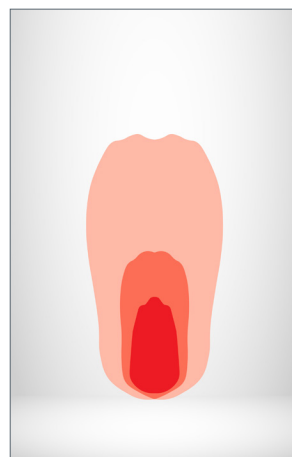
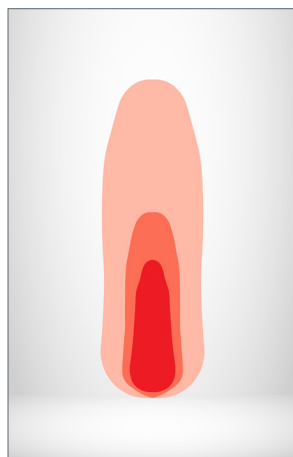
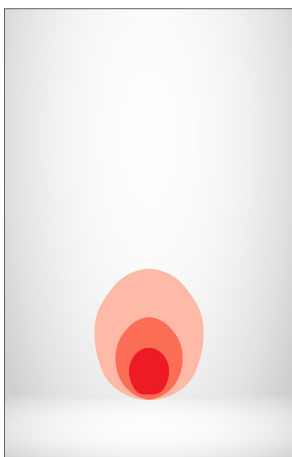
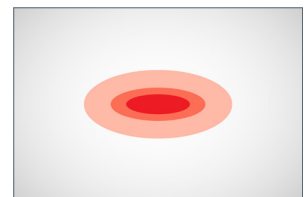
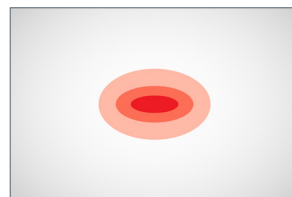
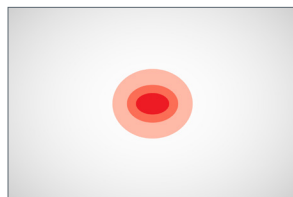
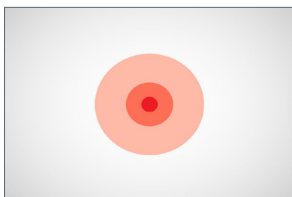


Wide
Angle: 60°x60°
Delivered lumen: 2150lm

Spot Asymmetric
Angle: 10°x20°
Delivered lumen: 2380lm

Narrow Asymmetric
Angle: 10°x40°
Delivered lumen: 2270lm

Medium Asymmetric
Angle: 10°x60°
Delivered lumen: 2215lm



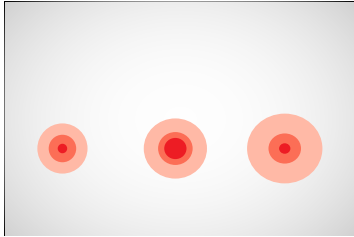


Faro Round 100

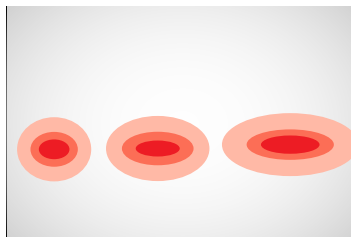
DIGITALLY ADJUSTABLE OPTICS

Digitally adjustable beam angles

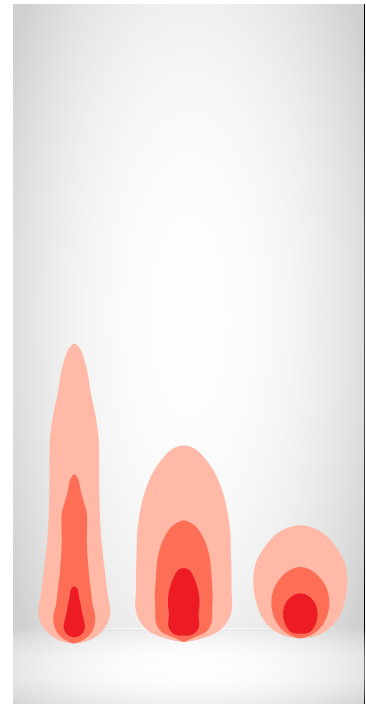
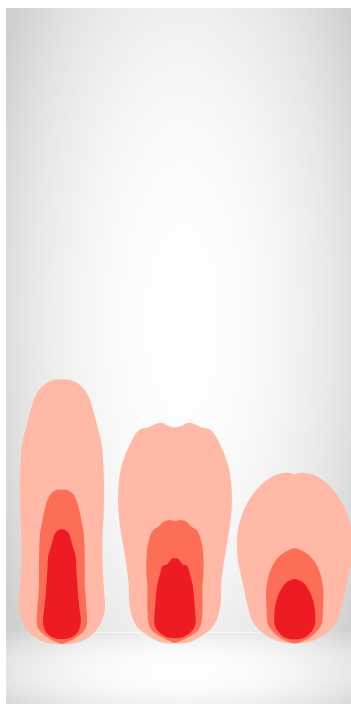
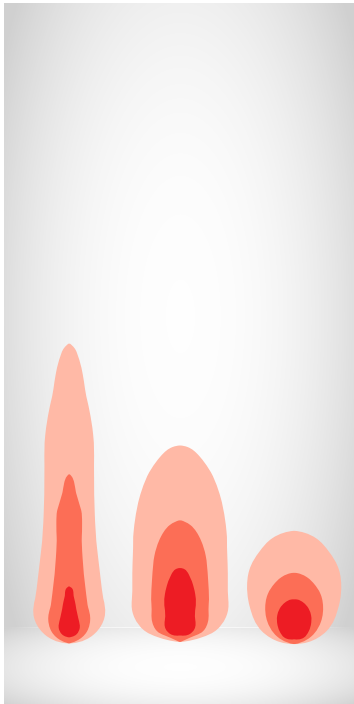
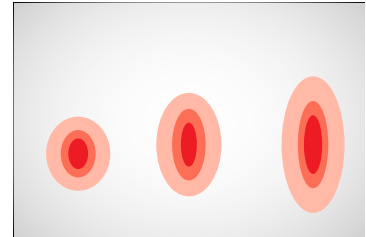
10° x 10° 40° x 40° 60° x 60°



10° x 20° 10° x 40° 10° x 60°



20° x 10° 40° x 10° 60° x 10°



This optical solution enables dynamic adjustment of the beam angle without mechanical movement. It provides the flexibility to switch between focused and wide light distributions in real time, making it ideal for adaptive lighting setups and scenes that require shifting emphasis or coverage



Control

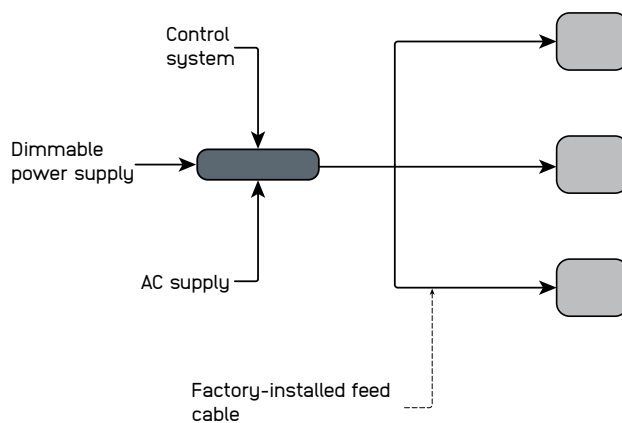
PWM SYSTEM TOPOLOGY - CONSTANT VOLTAGE

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.
- Recommended 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.



Addressing & 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

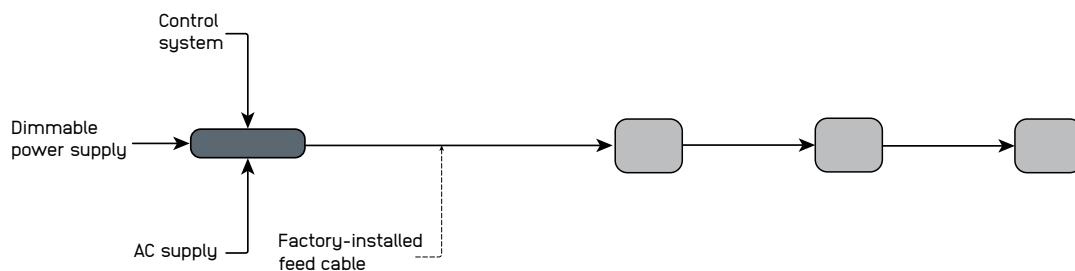
SYSTEM TOPOLOGY - CONSTANT CURRENT

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.
- Recommended 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.



Addressing & 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.