# Cylinder One HO™

**Acclaim™**

**Cylinder One HO™** downlights are self-contained high performance fixtures for medium- to long-throw applications. Maintaining a common overall sleek design, Cylinder One HO fixtures offer four distinct mounting options to elegantly satisfy multiple architectural constraints.
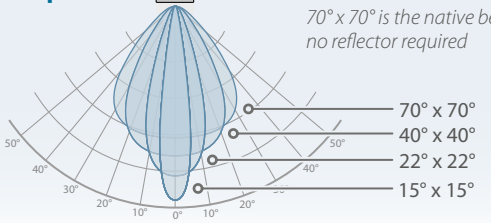
A choice of high-output color temperatures, CRI formats, beam options and powder-coat finishes ensure the perfect match to each installation space. Under DMX control, super-smooth dimming from 100% all the way down to a snapless zero make Cylinder One HO fixtures fully comparable with the best tungsten house systems. Configuration is handled via RDM across the wired DMX interface, while Aria™ wireless DMX is fitted as standard to simplify deployment in legacy locations that lack cabled control infrastructure. Cylinder One HO fixtures are also compatible with NEC 2023 700.24 for integration into centralized backup systems as directly controlled emergency luminaires.

The self-contained power supply accepts mains feeds from 100 to 277VAC and the fixture draws a maximum power of just 135W.

## At a glance

### 👁 Optics

*70° x 70° is the native beam, no reflector required*

- 70° x 70°
- 40° x 40°
- 22° x 22°
- 15° x 15°

### 🖌 Emitters

2700K *or* 3000K *or* 3500K *or* 4000K

### 📶 Control

**DMX** (+ RDM)

### 🔌 Power

**100** to **277**VAC **50/60**Hz

### 🌡 Temperature

**-4° F** to **113° F**
**-20° C** to **45° C**

### 🌧 Protection

Ingress: **IP40**
Impact: **IK08**

### 📟 Output

Up to
**11,989** lumens
**98,993** candela

### 🔧 Core technologies

**aria** wireless

**AcclaimModular** systems

## Configure your product

**COH** **-CHM** **-CHC** **-RFH**

*Example final code:* ***COH4-CHMA4-CHCG-RFHM***

**Housing finish:**
**1** = Black* (RAL 9005)
**2** = White* (RAL 9003)
**4** = Gray (RAL 7047)
**7** = Custom* (RAL #)

**Mount type:**
**A** = Surface mount
**B** = ¾" NPS pendant thread [1]
**C** = Aircraft cable mount, 10' cable
**D** = Wall mount

**Mount finish:**
**1** = Black* (RAL 9005)
**2** = White* (RAL 9003)
**4** = Gray (RAL 7047)
**7** = Custom* (RAL #)

**Emitters:**
**A** = 2700K, 80 CRI
**C** = 3000K, 80 CRI
**D** = 3500K, 80 CRI
**E** = 4000K, 80 CRI
**F** = 2700K, 90 CRI
**G** = 3000K, 90 CRI
**H** = 3500K, 90 CRI
**J** = 4000K, 90 CRI

**Optics:**
**S** = 15° x 15°
**M** = 22° x 22°
**W** = 40° x 40°
**N** = 70° x 70° [2]

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*\* indicates special order items, which may require longer lead times*

[1] *specify pipe length (see page 4)*

[2] *native beam, no reflector fitted*

| PROJECT | FIRM | ORDER # | TYPE | QTY |
|---------|------|---------|------|-----|
| | | | | |

## Specifications

| | |
|---|---|
| **Emitters** | 2700K, 3000K, 3500K or 4000K |
| **Optics** | 15° x 15°, 22° x 22°, 40°x 40°, 70° x 70° via quick change reflectors |
| **Output** | Up to 12,000 lumens, 99,000 max candela |
| **Lumen maintenance** | $L_{70}$ 150,000 hours (@ 25° C) |
| **Control** | 0-100% dimming via wired DMX (with RDM configuration) plus built-in Aria™ Wireless System *Fixture will default to 100% (on/off) output if the control input is absent (see page 9).* |
| **Maximum fixtures in series** | 32 via DMX input/output, power local to each fixture |
| **Operating voltage** | 100 to 277VAC, 50/60Hz |
| **Power consumption** | 135W |
| **Connection** | Attached 20' (6.09m) AC power cable (18 AWG x 3) plus DMX/RDM cable (24 AWG x 5) |
| **Maximum noise level** | -23.9dB(A) |
| **Mounting** | Surface mount bracket standard, ¾" NPS pendant mount, aircraft cable, or wall mount |
| **Material** | Aluminum, acrylic lens (optional) |
| **Finish** | Gray standard (RAL 7047), black (RAL 9005), white (RAL 9003) or custom colors (provide RAL #) |
| **Trim options** | Full aluminum cutoff or illuminated acrylic ring |
| **Ambient temperature range** | -4° F to 113° F (-20° C to 45° C) |
| **Ingress protection** | IP40, dry location |
| **Impact protection** | IK08, protection against 5 joule impact (30cm distance) |
| **Emergency use** | Compatible with centralized backup systems as a directly controlled emergency luminaire (NEC 2023 700.24) |
| **Warranty** | 5 years, limited |
| **Weight** | 12.4 lbs (5.6kg) |
| **Certifications** | c ETL us Intertek    CE |

## Photometrics

*For all available IES files, please visit acclaimlighting.com/cylinder-one-ho*

| Color temperature | Lumens | Max Candela | Efficacy (lm/W) | CRI | TM30 |
|---|---|---|---|---|---|
| **2700K** 15° x 15° (80 CRI) | 9,456 | 82,963 | 75 | 82.5 | 82.3 |
| **3000K** 15° x 15° (80 CRI) | 9,270 | 81,417 | 72 | 82.2 | 82.0 |
| **3500K** 15° x 15° (80 CRI) | 9,674 | 84,490 | 76 | 82.6 | 81.8 |
| **4000K** 15° x 15° (80 CRI) | 11,989 | 98,993 | 95 | 82.0 | 80.9 |
| | | | | | |
| **2700K** 15° x 15° (90 CRI) | 8,357 | 71,542 | 67 | 90.2 | 87.9 |
| **3000K** 15° x 15° (90 CRI) | - | - | - | - | - |
| **3500K** 15° x 15° (90 CRI) | 8,451 | 72,931 | 67 | 89.7 | 87.9 |
| **4000K** 15° x 15° (90 CRI) | 9,127 | 79,575 | 73 | 90.5 | 88.4 |

| | | | | |
|---|---|---|---|---|
| PROJECT | FIRM | ORDER # | TYPE | QTY |

## Model types



**Type A**
**Surface mount**

**Type B**
**¾" NPS pendant thread**

*(12", 24" or 36" pipe lengths)*

*Note: above image shown with optional vaulted ceiling mount*

**Type C**
**Aircraft cable mount**

*(with 10' cable)*

**Type D**
**Wall mount**

| PROJECT | FIRM | ORDER # | TYPE | QTY |
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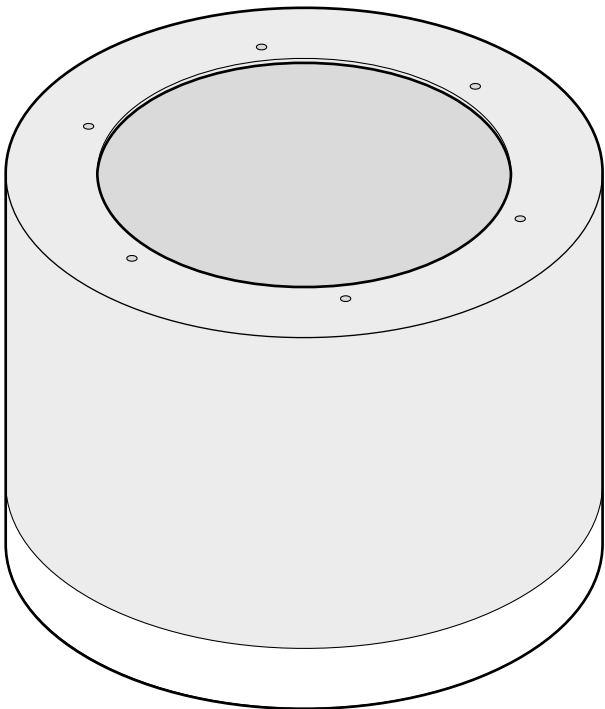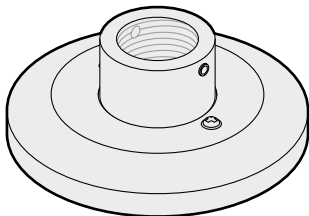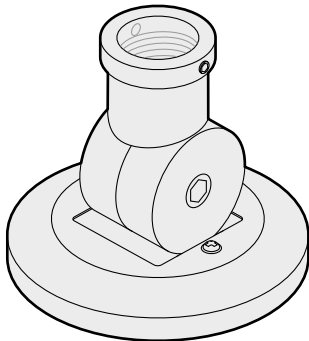## Accessories



Illuminated trim ring     **COHTR**



*A flat pendant mount is supplied as standard with the ¾" NPS mounting option...*



*...the optional vaulted ceiling mount allows the angle between the mount surface and pole to be rotated up to 60°.*

Vaulted ceiling mount     **COHVCM**



**NPS pipe**
*(¾" NPS, O/D=1.050")*

| | |
|---|---|
| 12" gray | **[NPS34-12G]** |
| 24" gray | **[NPS34-24G]** |
| 36" gray | **[NPS34-36G]** |

*(For other colors, substitute G suffix for:*
*B = black*
*W = white*
*C = custom)*
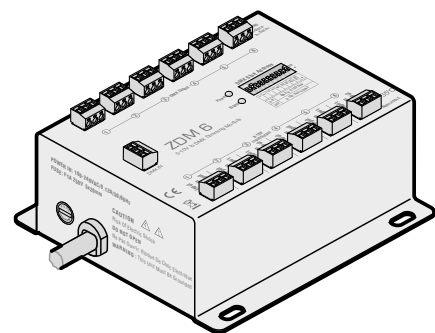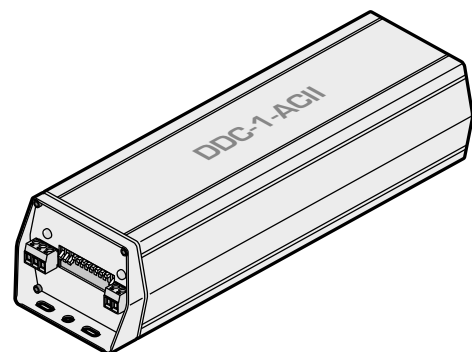
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## Related components
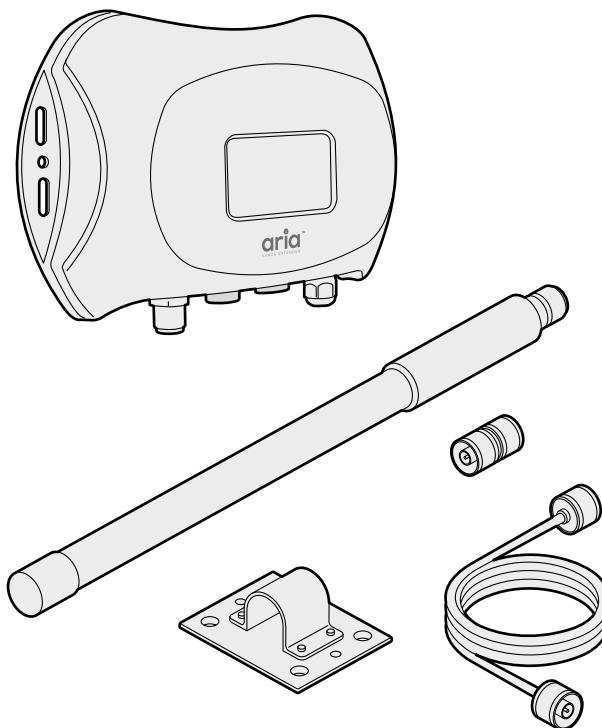
### Signal converters (see page 9)



Multi-channel (0-10V) converter    **ZDM6**



DALI multiple channel converter    **DDC 1 AC**
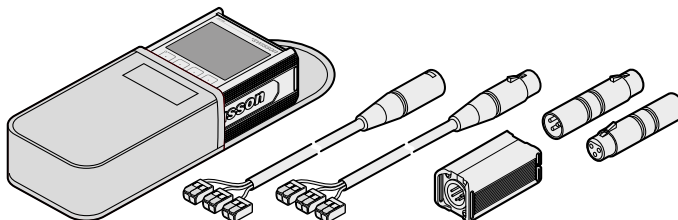
### Wireless DMX transceiver



Wireless transceiver with antenna, cable, adapter and antenna bracket    **ARIA WDS**

### Test and configuration tool kit



**XMT-500**
DMX/RDM, ArtNet and sACN test/configuration tool with cable dongle, 3/5-pin converters, bare cable connectors and pouch
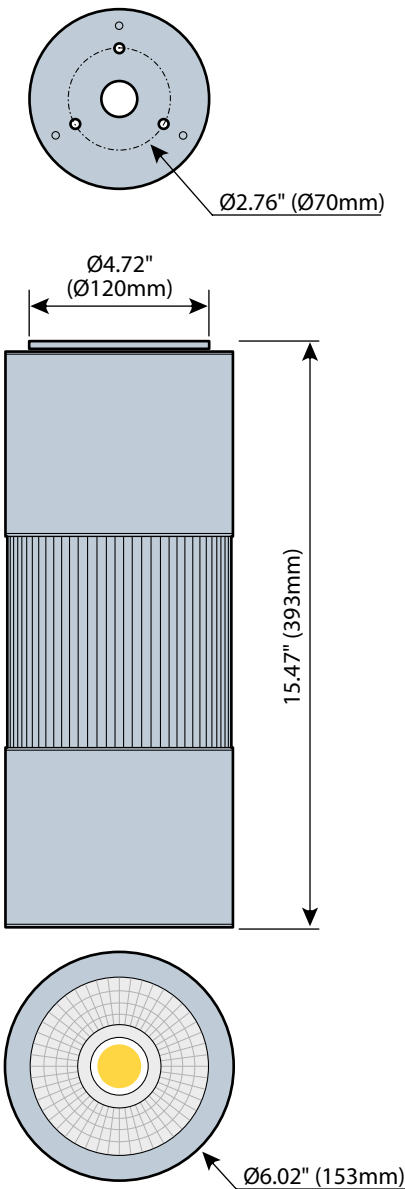
## Dimensions

### Surface mount (type A)

Ø2.76" (Ø70mm)

Ø4.72"
(Ø120mm)

15.47" (393mm)

Ø6.02" (153mm)

### Aircraft cable mount (type C)

9.65" (245mm)

15.2" (386mm)

Ø6.02" (153mm)

## Dimensions

### Wall mount (type C)



4.19"
(106.5mm)

Ø3.9" (Ø99mm)

2.22"
(56.5mm)

2.22"
(56.5mm)

2.17"
(55mm)

15.2" (386mm)

Ø6.02" (153mm)

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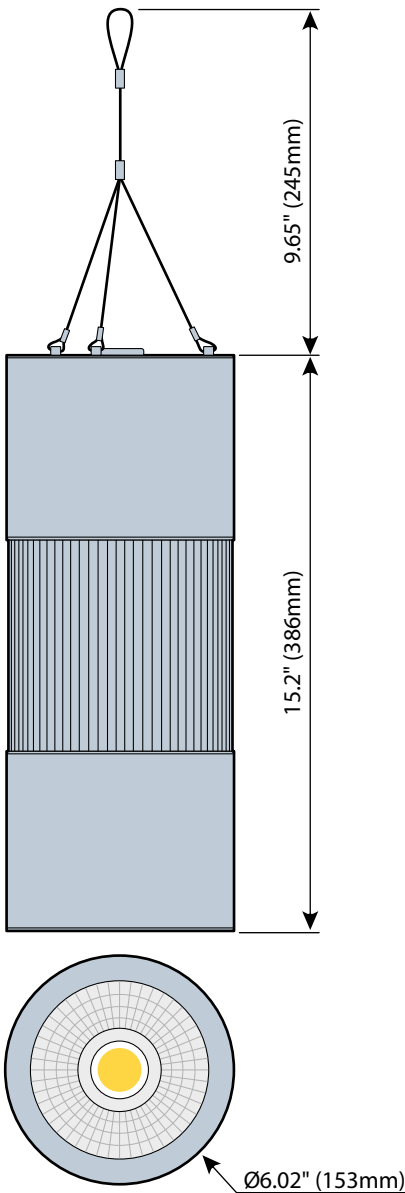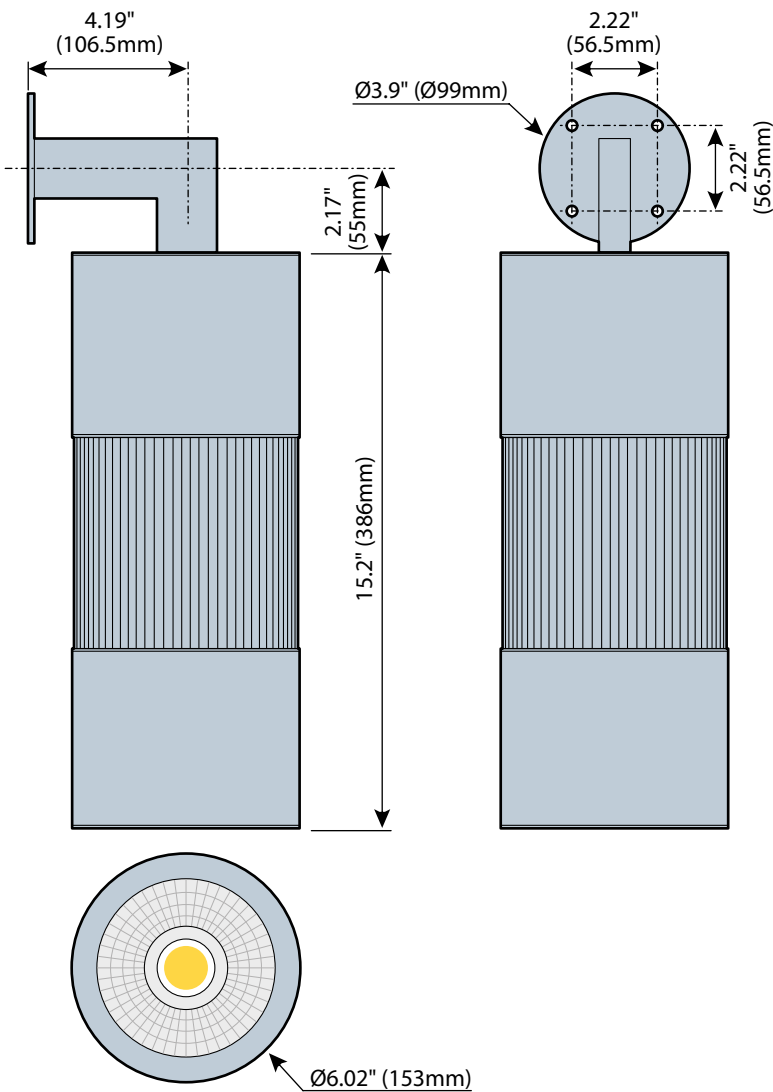
PROJECT | FIRM | ORDER # | TYPE | QTY

## Dimensions

### ¾" NPS mount (type B)



Ø4.8" (124mm)

2.17" (55mm)

15.2" (386mm)

16.7" (426mm)

**12" pole:** 28.9" (734mm) - **24" pole:** 40.9" (1039mm) - **36" pole:** 52.9" (1344mm)

Ø6.02" (153mm)

### Optional vaulted ceiling mount



Ø4.8" (124mm)

5.12" (130mm)

0 to 60°
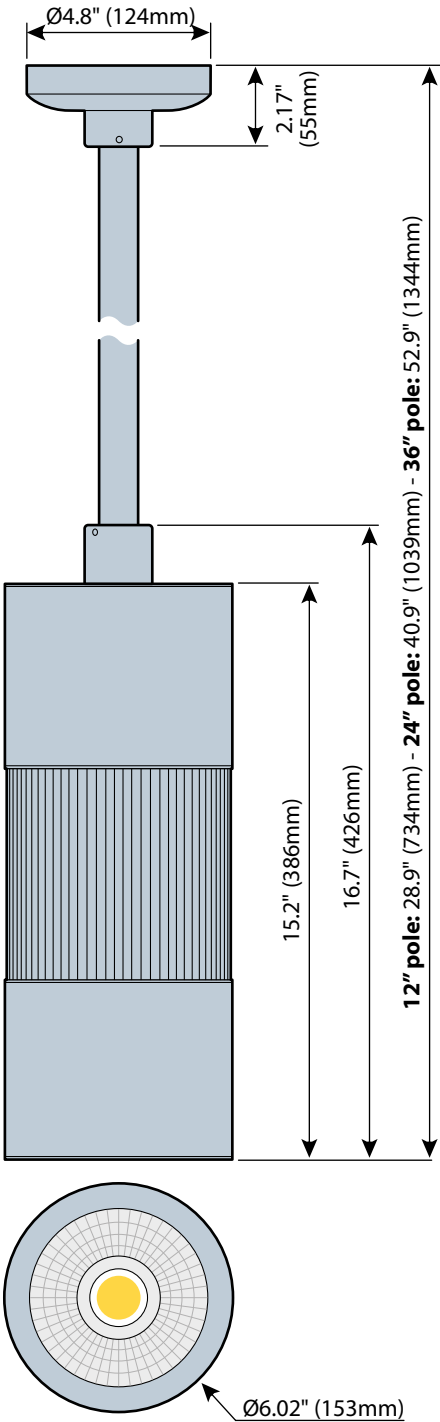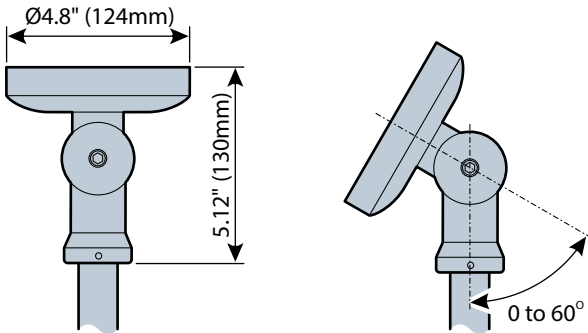
### Internal bracket

*(for standard and vaulted ceiling mounts)*



3.46" (88mm)

Ø0.39 x 0.85" (Ø10 x 21.5mm)

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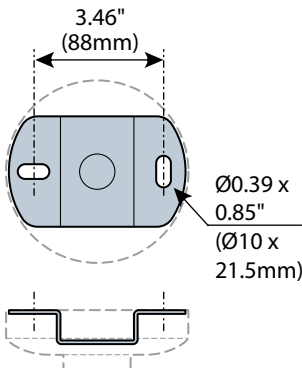
## Alternative control inputs

Cylinder One HO fixtures use DMX as their native control method, however, it is possible to use other common control protocols when required, such as 0-10V (source or sink) or DALI.

### Control inputs via converters

- DMX - connect a DMX input directly to the feed cable.
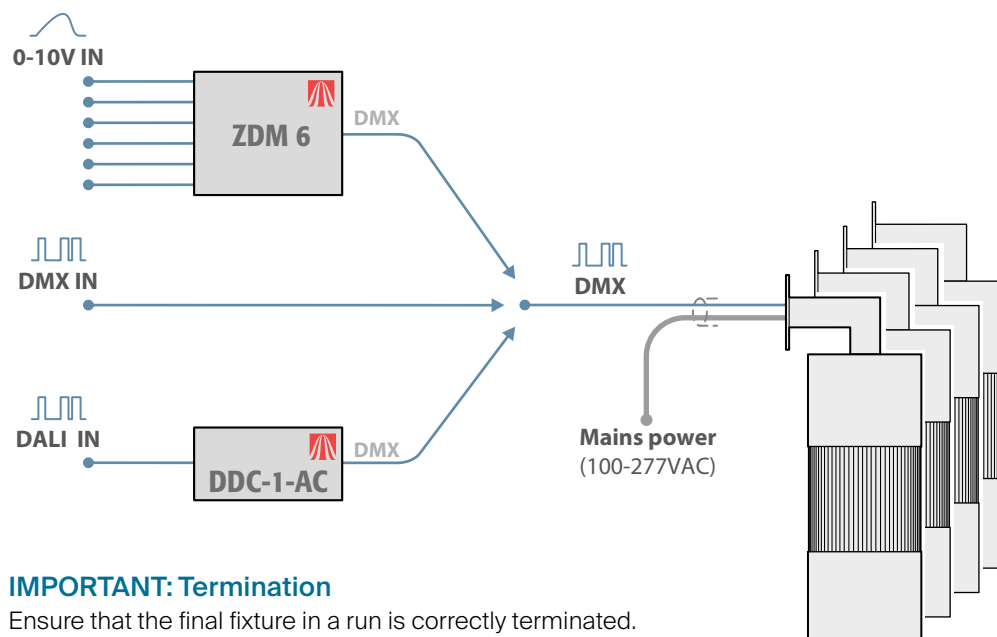- 0-10V - use an Acclaim Lighting ZDM 6 to convert one or more analog control feeds into a combined DMX feed.
- DALI - use an Acclaim Lighting DDC-1-AC to convert one or more DALI channels into a combined DMX feed.



**0-10V IN**

**ZDM 6** — DMX

**DMX IN**

**DMX**

**DALI IN**

**DDC-1-AC** — DMX

**Mains power** (100-277VAC)

When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert multiple inputs into separate DMX channels within a consolidated feed - thus allowing multiple Cylinder One HO fixtures to be uniquely addressed. The ZDM 6 can convert up to six 0-10V inputs into DMX channels, whereas the DDC-1-AC can convert a maximum of 64 DALI channels (although large numbers of channels are not recommended due to the timing limitations of the DALI standard).

**IMPORTANT: Termination**

Ensure that the final fixture in a run is correctly terminated.

### Behavior if the control signal is lost or not applied

When the control signal is lost (or not used), each fixture will go to full output until the control signal is restored. If 100% output is required at all times during normal operation, this feature allows the fixtures to be fed with power only, without need for a control input.

## Wireless DMX control

Each Cylinder One HO fixture contains an Aria wireless DMX receiver as standard, which can greatly simplify the deployment of multiple fixtures in spaces that contain no control wiring infrastructure. A single Aria transmitter can control many Cylinder One HO fixtures, at distances up to 2600 feet (792m).



**Tx**

**DMX IN**

**Mains power** (100-277VAC)

For full installation details, please refer to the **user guide**, available for free download here: