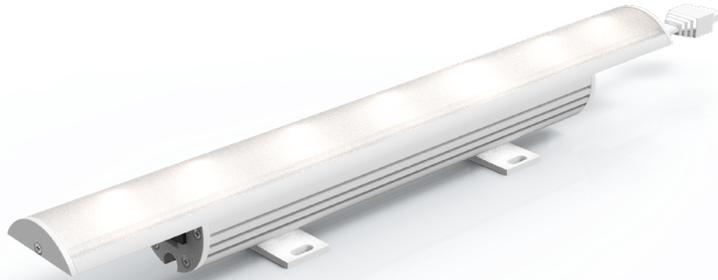


PROJECT  FIRM  ORDER #  TYPE  QTY

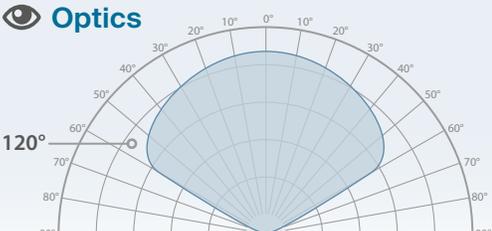


**Ai Cove™** is a unique, dim-to-warm interior cove fixture that can produce a near-perfect simulation of the red-shift effect associated with incandescent dimming.

Ai Cove uses clusters of carefully chosen LED emitters, with CCTs ranging from 1800K to 3000K - we call this **Ai Dim** technology. As the dimmed power input (forward or reverse phase from an external dimmer source) changes, the emitter clusters are cleverly coordinated to reproduce the much loved warmth and response of incandescent lighting.

Ai Cove is available in 1' and 4' sections, each of which must be matched to the specific voltage of the dimmed source: 120, 240 or 277VAC.

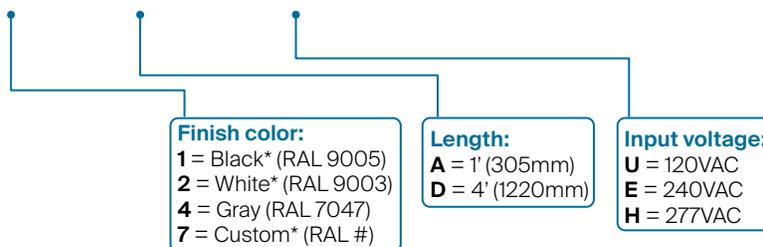
## At a glance

 <p><b>Optics</b></p>	 <p><b>Emitters</b></p>	 <p><b>Finish color</b></p>		
<p><b>Power</b></p> <p>120VAC, 240VAC or 277VAC</p>	<p><b>Temperature</b></p> <p>-4° F to 113° F -20° C to 45° C</p>	<p><b>Runs</b></p> <p>Up to 100' (30.4m)</p>	<p><b>Protection</b></p> <p>Ingress: IP20 (dry location)</p>	<p><b>Output</b></p> <p>Up to 500 lumens per linear foot</p>

## Configure your product

**AIC - 1 2 - A W**

Example final code: **AIC-122-DAWE**



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



## Specifications

<b>Emitters</b>	3000K to 1800K emitter clusters
<b>Optics</b>	120°
<b>Output</b>	Up to 500 lumens per linear foot, 93 CRI
<b>Lumen maintenance</b>	L <sub>70</sub> 150,000 hours (@ 25° C)
<b>Control</b>	Dimmed mains control: TRIAC (forward phase) or ELV (reverse phase) Optional 0-10V or DMX control via external UDM
<b>Maximum fixtures in series</b>	50' (15.2m) @ 120V, 100' (30.4m) @ 240V+
<b>Housing lengths</b>	1' (305mm) or 4' (1220mm)
<b>Operating voltage</b>	120VAC, 240VAC or 277VAC
<b>Power consumption</b>	<b>1'</b> : 13.5W <b>4'</b> : 53W
<b>Connection</b>	Attached 3-conductor power lead, includes end-to-end link cable
<b>Mounting</b>	30° swivel mount included, 90° swivel mount optional
<b>Material</b>	Aluminum, polycarbonate lens
<b>Finish</b>	White standard, black, gray or custom optional
<b>Ambient temperature range</b>	-4°F to 113°F (-20°C to 45°C)
<b>Ingress protection</b>	IP20, dry location
<b>Warranty</b>	5 years, limited
<b>Weight</b>	<b>1'</b> : 0.65 lbs (0.29 kg) <b>4'</b> : 2.75 lbs (1.25 kg)
<b>Dimensions</b>	See page 4
<b>Certifications</b>	 

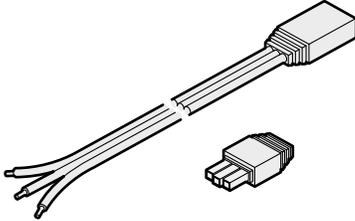


PROJECT  FIRM  ORDER #  TYPE  QTY

## Related components

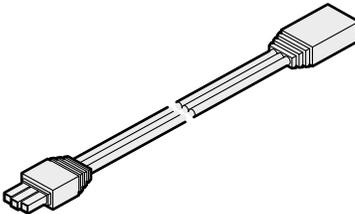
### Cables

#### Feed cable (inc terminator)



10' (3m) **AICFC10**

#### Link cables



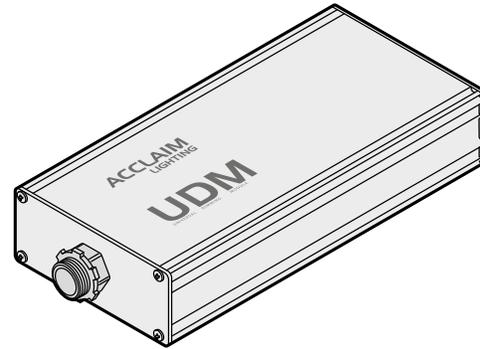
1' (30cm) **AICLC1**  
 5' (1.5m) **AICLC5**  
 10' (3m) **AICLC10**

#### Terminator (end cap)



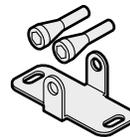
Terminator **AICEC**

### Signal protocol/dimming converters (see page 6)



Single-channel converter **UDM**  
 Single-channel converter with wireless **UDM-W**

### Mounting accessories



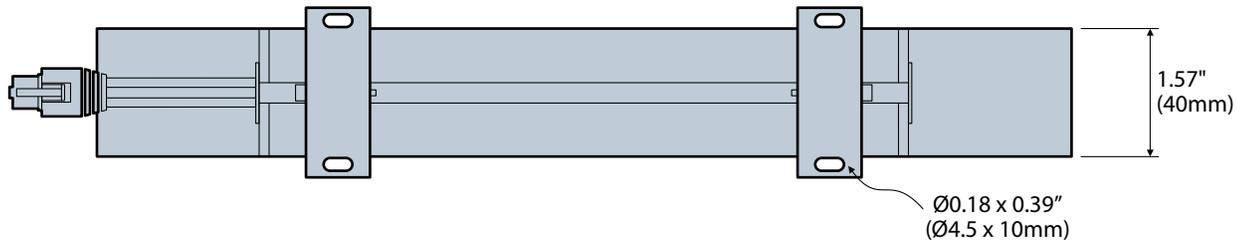
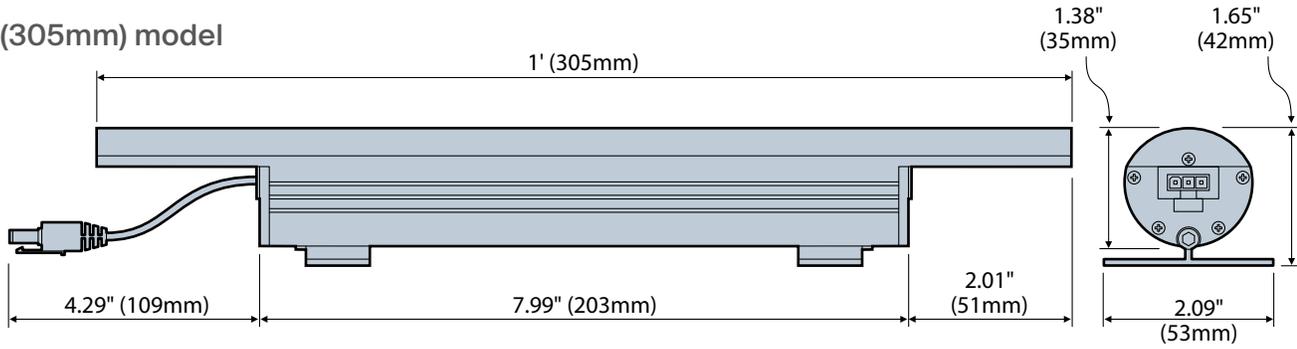
90° bracket (2 required per fixture) **AIC90**



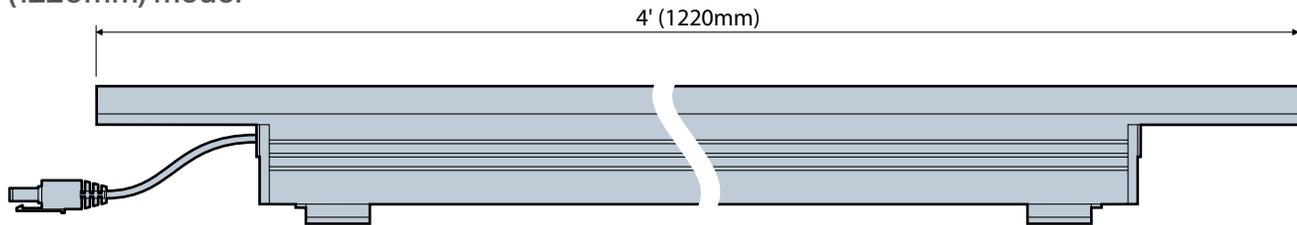
PROJECT  FIRM  ORDER #  TYPE  QTY

## Dimensions

1' (305mm) model



4' (1220mm) model

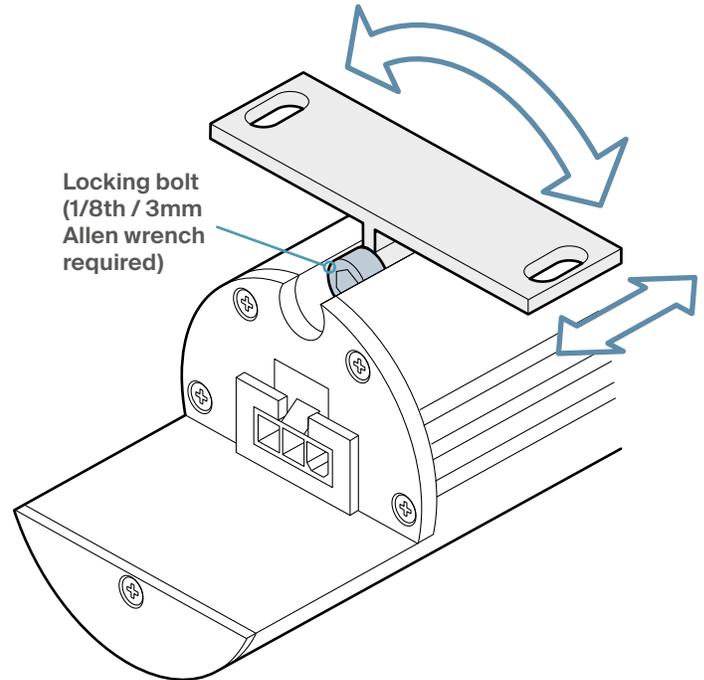


PROJECT	FIRM	ORDER #	TYPE	QTY
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## Mounting

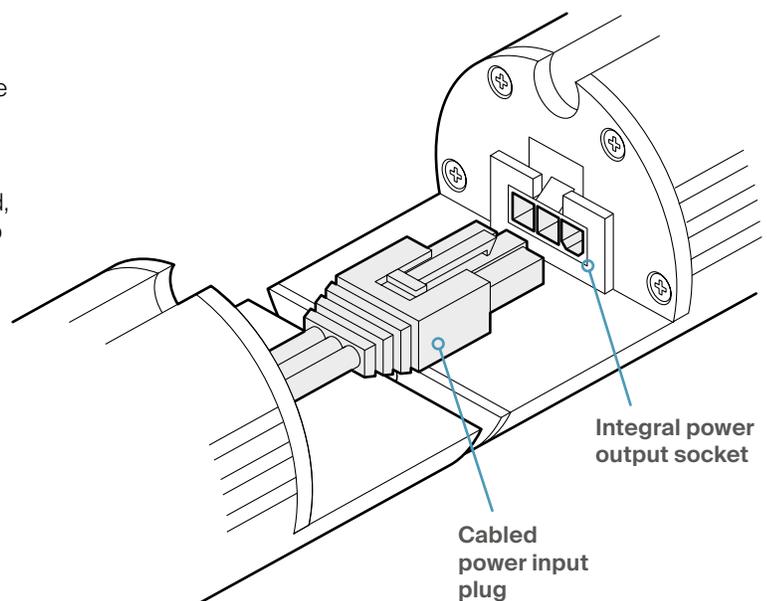
Each mount bracket has two slots measuring 0.39" x 0.18" (10 x 4.5mm) and the base has a thickness of 0.08" (2mm). Select bolts or screws (not supplied) that fit the mount bracket base(s) correctly and are particularly suited to the mounting surface.

Ensure that each mount bracket is securely fixed to the mounting surface with appropriate screws/bolts. If necessary, use a 1/8th (3mm) Allen wrench to loosen each mount bracket to allow them to slide along the length of the fixture to the required position before re-tightening.



## Interconnecting

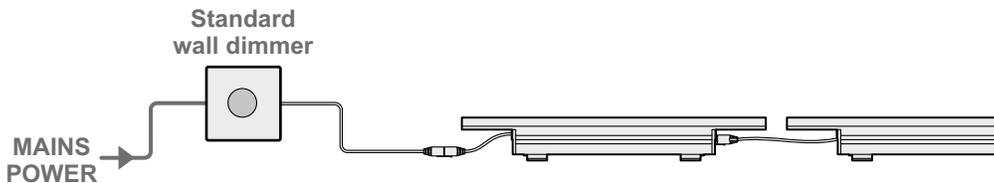
Each Ai Cove fixture has a short cabled power input plug at one end and an integral power output socket at the other. When fixtures are daisy chained (and are directly abutted), the input plug of one fixture can connect directly to the output socket of the previous fixture. Alternatively, where fixtures are not abutted, one of the optional link cables can be used to make up the gap between any two fixtures.



PROJECT \_\_\_\_\_ FIRM \_\_\_\_\_ ORDER # \_\_\_\_\_ TYPE \_\_\_\_\_ QTY \_\_\_\_\_

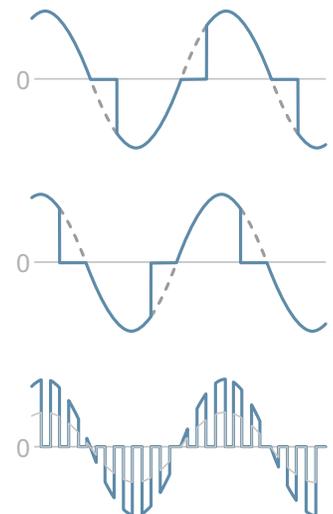
## Dimming control

All Ai Cove fixtures can accept dimmed mains power (at the appropriate voltage level for the chosen model) originating from various types of dimmers, such as a standard domestic wall dimmer:

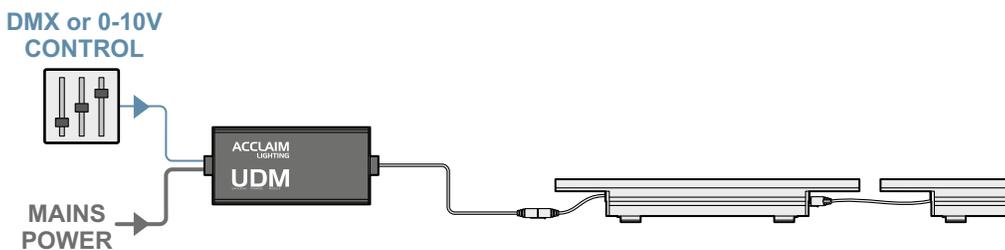


There are three main types of dimmer circuits; Ai Cove can operate from any of them:

- TRIAC dimming - (TRIode for Alternating Current)** - Dimmers that use TRIACs for mains dimming operate by delaying the switch-on point until later in each half-wave cycle, thus they affect the leading edge of the mains sinewave and are best suited to dimming resistive loads such as traditional tungsten lamps. This style of dimming is also called *Forward phase-control* or *Leading-edge dimming*.
- ELV dimming - (Electronic Low Voltage)** - These dimmers use a transistor type device to cut off the mains output before the zero point of each half-wave cycle, thus they affect the trailing edge of the mains sinewave. These dimmers avoid the voltage spikes associated with TRIAC-switched leading edge dimmers and are best suited to dimming capacitive loads such as the electronic transformers used with low voltage lighting. This style of dimming is also called *Reverse phase-control* or *Trailing-edge dimming*.
- Sinewave dimming** - These dimmers use an IGBT (*Insulated Gate Bipolar Transistor*) to switch the mains output at high frequencies such that they can recreate a dimmed mains sinewave with a varying overall amplitude. These dimmers produce the smoothest output of all types, but are more complex and expensive.



**DMX or 0-10V control** - Additionally, Ai Cove fixtures can be controlled by either DMX or 0-10V inputs by using the optional Acclaim Lighting UDM (Universal Dimming Module).



The UDM runs from a standard mains input (100 - 277VAC) and uses a DMX or 0-10V (source or sink) input to create a dimmed mains output from which the Ai Cove fixture(s) can operate.

The UDM is able to provide fully dimmed output power from 0-100%.

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

