



eColor Cove MX Powercore

Premium interior linear LED cove and accent fixture
with solid color light

PHILIPS

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eColor Cove MX Powercore delivers the highest light output in the line of solid color linear cove lights from Philips Color Kinetics. With medium and wide beam angles and a range of fixed colors, eColor Cove MX Powercore can be used for accent lighting as well as wall and ceiling cove applications. eColor Cove MX Powercore offers environmentally conscious buyers a green, energy-efficient lighting solution without sacrificing quality or quantity of light.

- Integrates patented Powercore technology — Powercore rapidly, efficiently, and accurately controls power output to fixtures directly from line voltage, eliminating the need for external power supplies and allowing long product runs. Contractor-friendly installation dramatically simplifies installation and lowers total system cost.
- Support for multiple voltages — Accepts line voltage input of 100 – 277 VAC for consistent installation and operation in a variety of locations.
- Dimming capability — Patented DIMand technology offers smooth dimming capability with selected commercially available reverse-phase ELV-type dimmers.
- Simple installation — Powercore delivers line voltage directly to the fixtures, simplifying installation and allowing long product runs. Easy-to-install 4 ft (1.2 m) mounting tracks allow quick project setup in linear applications.
- Easy mounting and positioning — With end-to-end locking power connectors that can make turns of up to 180°, eColor Cove MX Powercore fixtures are easy to position in even the most challenging mounting circumstances. Fixtures rotate in 10° increments through 180° for precise aiming and color mixing. Optional mounting tracks allow quick project setup in linear applications, and support vertical and overhead positioning. Available jumper cables can add extra space between fixtures.

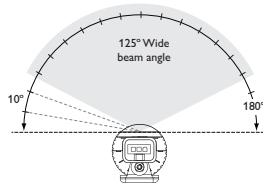


Maximum light output

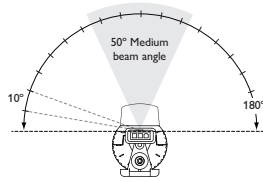
eColor Cove MX Powercore delivers high-output solid color light for a wide range of cove and accent lighting applications.

Specifications

Due to continuous improvements and innovations, specifications may change without notice.



125° x 120° beam angle



50° x 70° beam angle

✳ For help estimating the light output and distribution of eColor lighting fixtures, please contact Philips Color Kinetics Applications Engineering Services at support@colorkinetics.com.

Item	Specification	1 ft (305 mm)	4 ft (1.2 m)
Output	Beam Angle	125° x 120° / 50° x 70°	
Electrical	Input Voltage	100 – 277 VAC, auto-ranging, 50 / 60 Hz	
	Power Consumption <i>Max. at full output, steady state</i>	12.5 W (Red / Blue / Green) 10 W (Amber)	50 W (Red / Blue / Green) 40 W (Amber)
Control	Dimming	Compatible with selected commercially available reverse-phase ELV-type dimmers*	
Physical	Dimensions (Height x Width x Depth)	125° x 120° 1.64 x 12 x 1.5 in (42 x 305 x 38 mm)	1.6 x 48 x 1.6 in (42 x 1219 x 41 mm)
		50° x 70° 2 x 12 x 1.5 in (51 x 305 x 38 mm)	2.0 x 48 x 1.6 in (51 x 1219 x 41 mm)
	Weight	125° x 120° 0.82 lbs (372 g)	3.97 lbs (1.8 kg)
		50° x 70° 1 lb (454 g)	4.41 lbs (2.0 kg)
	Housing	Die-cast aluminium, white powder-coated finish	
	Lens	Polycarbonate	
	Fixture Connections	Integral male / female connectors	
	Temperature Ranges	-4° – 122° F (-20° – 50° C) Operating -4° – 122° F (-20° – 50° C) Startup -40° – 176° F (-40° – 80° C) Storage	
Certification and Safety	Humidity	0 – 95%, non-condensing	
	Fixture Run Lengths	To calculate fixture run lengths and total power consumption for your specific installation, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/	
	Certification	UL / cUL, FCC Class B, CE, CCC, SAA, C-Tick	
	Environment	Dry / Damp Location, IP20	

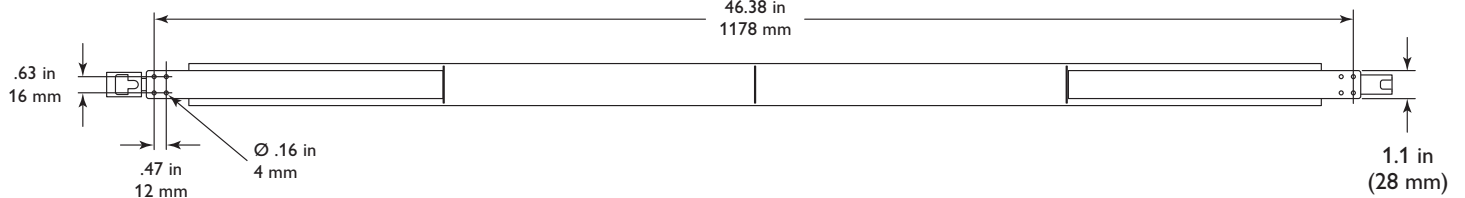
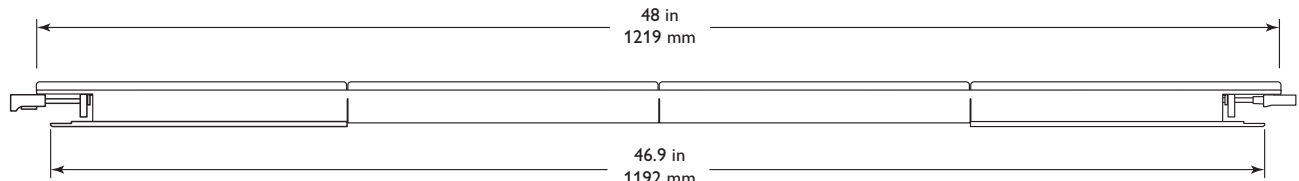
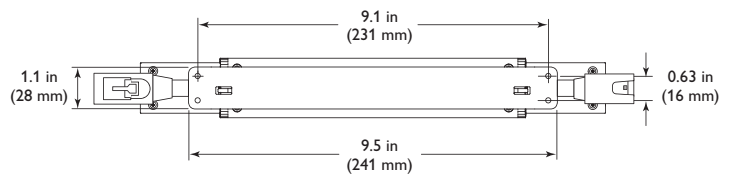
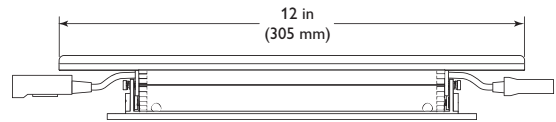
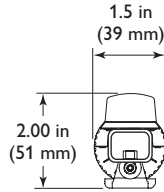
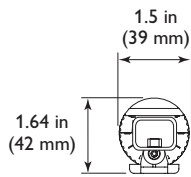
* Refer to www.philipscolorkinetics.com/support/appnotes/ for specific details.



OPTIBIN[®] | POWERCORE[®] | DIMAND[®]
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125° x 120° beam angle

50° x 70° beam angle





Product Selection


To order eColor Cove MX Powercore, select a fixture color, beam angle, length, line voltage connection option, and any extra options you might need.


1

Choose color


Red



Green



Blue


Amber

2


Choose beam angle



50° x 70°


125° x 120°

3


Choose fixture length



4 ft (1.2 m)


1 ft (305 mm)

4

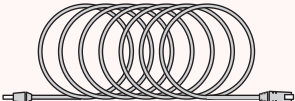
Choose line voltage connection option

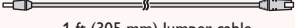

Leader cable, terminator and strain relief, UL / cUL, CE, CCC



Wiring compartment, UL / cUL

5

Choose extra options


5 ft (1.5 m) Jumper cable


1 ft (305 mm) Jumper cable


Mounting track

Fixtures

Item	Color	Beam Angle	Item Number	Philips 12NC
eColor Cove MX Powercore 1 ft (305 mm)	Red	125° x 120°	223-000050-12	910503701730
		50° x 70°	223-000050-08	910503701112
	Green	125° x 120°	223-000050-13	910503701731
		50° x 70°	223-000050-09	910503701113
	Blue	125° x 120°	223-000050-14	910503701732
		50° x 70°	223-000050-10	910503701114
	Amber	125° x 120°	223-000050-15	910503701733
		50° x 70°	223-000050-11	910503701115
eColor Cove MX Powercore 4 ft (1.2 m)	Red	125° x 120°	223-000050-16	910503702591
		50° x 70°	223-000050-20	910503702595
	Green	125° x 120°	223-000050-17	910503702592
		50° x 70°	223-000050-21	910503702596
	Blue	125° x 120°	223-000050-18	910503702593
		50° x 70°	223-000050-22	910503702597
	Amber	125° x 120°	223-000050-19	910503702594
		50° x 70°	223-000050-23	910503702598

Use Item Number when ordering in North America.

Accessories

Item	Type	Length	Item Number	Philips 12NC
Leader Cable with terminator and strain relief	UL / cUL	10 ft (3 m)	108-000047-00	910503700972
	CE / CCC	10 ft (3 m)	108-000047-01	910503700973
Wiring Compartment with terminator	UL / cUL		120-000077-01	910503700994
Jumper Cable	UL / cUL	1 ft (305 mm)	108-000048-00	910503700974
		5 ft (1.5 m)	108-000048-01	910503700975
		1 ft (305 mm)	108-000048-02	910503700976
	CE / CCC	5 ft (1.5 m)	108-000048-03	910503700977
Terminators, Quantity 10			120-000099-00	910503701120
Mounting Track, White	1 @ 4 ft (1219 mm)		120-000124-00	910503701787

For connection to standard junction box

Can be used for direct connection to conduit

Depending on the installation's design, you may need jumper cables to add space between fixtures.

Optional mounting track ensures straight runs of fixtures.

Use Item Number when ordering in North America.

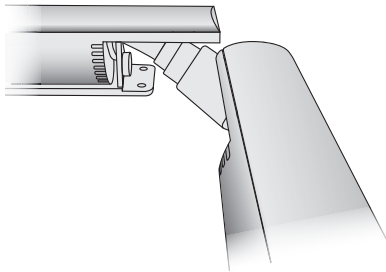
Included in the box

eColor Cove MX Powercore fixture
Installation Instructions

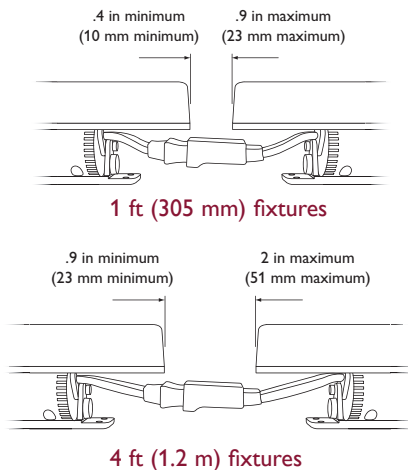
✱ Refer to the eW / eColor Cove MX Powercore Installation Instructions for specific warning and caution statements.

Easy turns

End-to-end locking power connectors can make turns of up to 180° without jumper cables.



Distance between fixtures joined end-to-end



✱ Refer to the installation instructions included with the wall or dimmer switch for installation and wiring information.

Installation

eColor Cove MX Powercore offers high-output, energy-efficient alcove lighting with PowerCore technology. Powercore, which delivers line voltage directly to the fixture, eases installation by eliminating the need for external power supplies or special wiring.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate eColor Cove MX Powercore fixtures in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Create a Layout Plan

- Regardless of the size and complexity of your installation, the time you spend up front can help minimize installation and configuration issues later. Keep these suggestions in mind as you plan your installation:
- On an architectural diagram or other diagram that shows the physical layout of the installation, create a layout map that specifies the appropriate location of the light fixtures in relation to each other, and to any dimmer switches, wall switches, and line power sources. Identify any obstacles or physical features requiring flexible jumper cables between fixtures.
- Using the fixture's power consumption and efficiency ratings, the lighting designer or architect should calculate the cove dimensions to ensure that operating temperatures remain within safe levels. The designer or architect should also determine the cove's fascia design and fixture setback based on the cove dimensions and room width. We strongly recommend creating dimensional models and mockups prior to installation.
- eColor Cove MX Powercore fixtures are installed in series. The in-line connectors allow end-to-end fixture connections for the best visual effects. Joined directly together, the connectors on the 1 ft (305 mm) fixtures allow for spacing of .4 in (10 mm) to .9 in (23 mm) without a jumper cable, while the connectors on the 4 ft (1.2 m) fixtures allow for spacing of .9 in (23 mm) to 2 in (51 mm) without a jumper cable. When you need to separate fixtures by more than these minimums, use the 1 ft (305 mm) or 5 ft (1.5 m) jumper cables.
- You can install a run of eColor Cove MX Powercore fixtures using the 10 ft (3 m) Leader Cable with flying leads. This option is preferable when connecting to a third-party junction box, or when retrofitting an existing incandescent or fluorescent cove lighting installation.
- In North America, you can use the Wiring Compartment when you want to run branch conduit to the first fixture in a series, or where local codes require it.
- To calculate the number of fixtures your specific installation can support, download the Configuration Calculator from www.philipscolorkinetics.com/support/install_tool/, or consult Philips Color Kinetics Application Engineering Services at support@colorkinetics.com.

Install Wall and Dimmer Switches (Optional)

eColor Cove MX Powercore can be controlled with a standard wall switch (on / off) or a compatible, commercially available reverse-phase ELV-type dimmer.

For information on selecting the appropriate dimmer for your lighting installation, visit www.philipscolorkinetics.com/support/appnotes, or consult Application Engineering services at support@colorkinetics.com.

Prepare for the Installation

1. Verify that all supporting equipment (switches, line power sources) is in place.
2. If your installation calls for jumper cables to add space between fixtures, make sure they are available.
3. Ensure that all additional parts (optional mounting tracks, mounting hardware, terminators) and tools are available.

Install the Fixtures

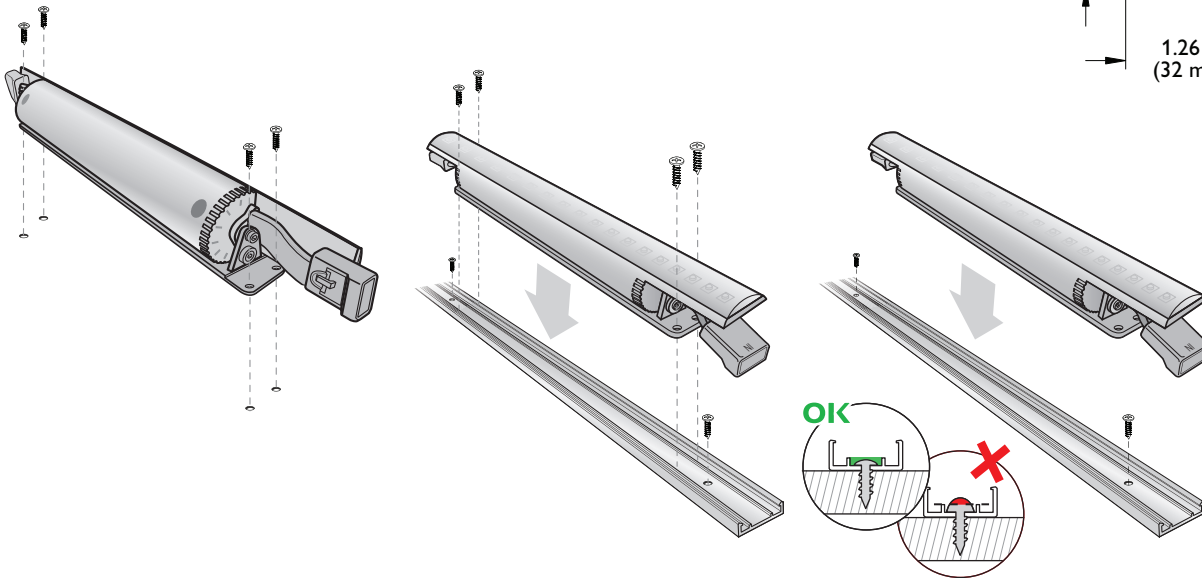
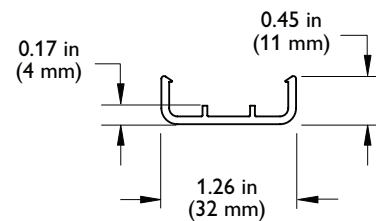
You can mount eColor Cove MX Powercore fixtures directly to a wall, ceiling, cabinet, or other secure surface. You can install several fixtures in optional 4 ft (1.2 m) lengths of mounting track to ensure a straight run.

Install Mounting Tracks (Optional)

1. Field-cut the mounting tracks to the desired length with a hacksaw or tin snips.
2. Install the mounting tracks using hardware suitable for the mounting surface.

To ensure proper fixture fit, hardware must not extend above the track standoffs after installation. The recommended maximum spacing between screws is 12 in (305 mm).

✳ You can use the fixture base as a template when pre-drilled pilot holes are required. Hold the fixture in place and mark the four screw holes.



Mount and Connect the Fixtures

Make sure the power is OFF before mounting and connecting eColor Cove MX Powercore fixtures.

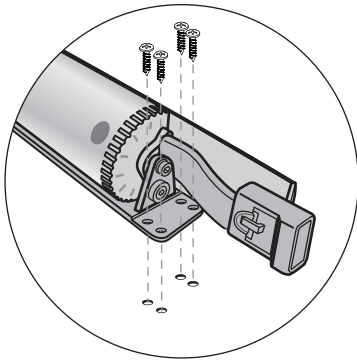
1. Rotate an eColor Cove MX Powercore fixture as necessary to provide unobstructed access to the mounting holes.
2. Position the first fixture in a series.

If using mounting tracks on a horizontal surface, snap the fixture into the track.

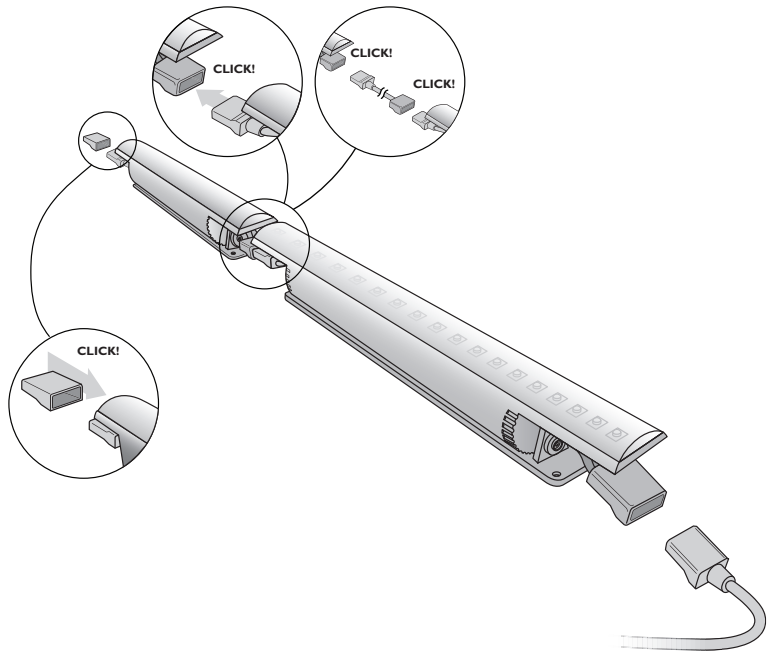
If using mounting tracks on vertical or overhead surfaces, or if not using mounting tracks, attach 1 ft (305 mm) fixtures with four #6 (3.5 mm) mounting screws each (not included) suitable for the mounting surface. Attach 4 ft (1.2 m) fixtures with eight #6 (3.5 mm) mounting screws suitable for the mounting surface, four at each end of the fixture.

Ensure that the male connector is in position to receive power from the female connector on the Leader Cable or Wiring Compartment.

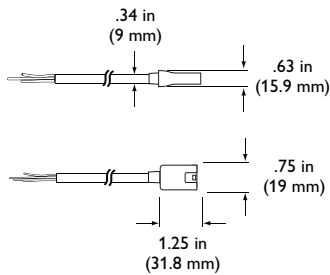
Mounting 4 ft (1.2 m) fixtures



- Position the next fixture in the series, matching the male connector end to the female connector of the previously mounted fixture. Attach the fixture to the surface or snap it into the track.



Leader Cable connector dimensions



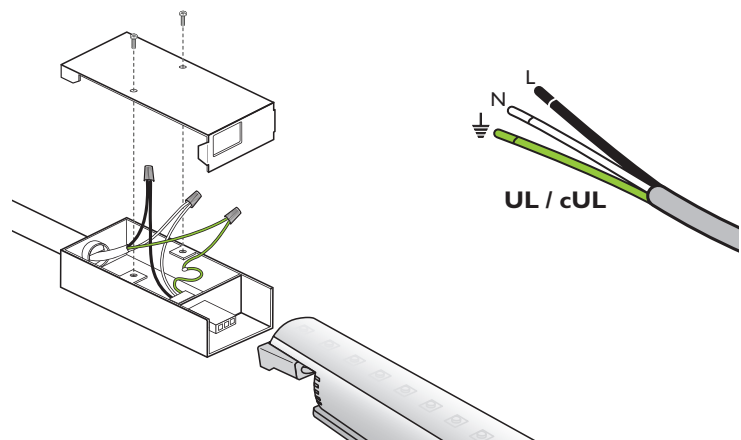
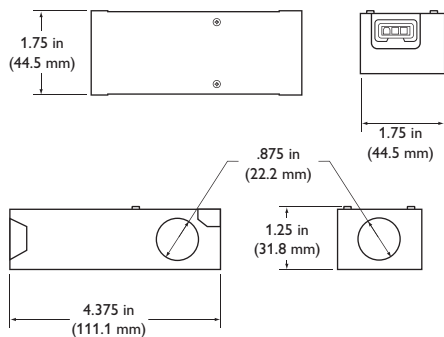
- Continue mounting the fixtures, making power connections as you go, until all lights in the series are mounted.
- Insert the provided terminator into the last fixture in the series.

Make Power Connections

To run power or conduit to the first fixture in a series (UL / cUL installations):

- Remove the cover from the eColor Cove MX Powercore Wiring Compartment.
- Using wire nuts, connect ground, neutral, and line inside the Wiring Compartment housing, then replace the cover.
- Connect the eColor Cove MX Powercore Wiring Compartment to the first fixture in the series.

Wiring Compartment dimensions

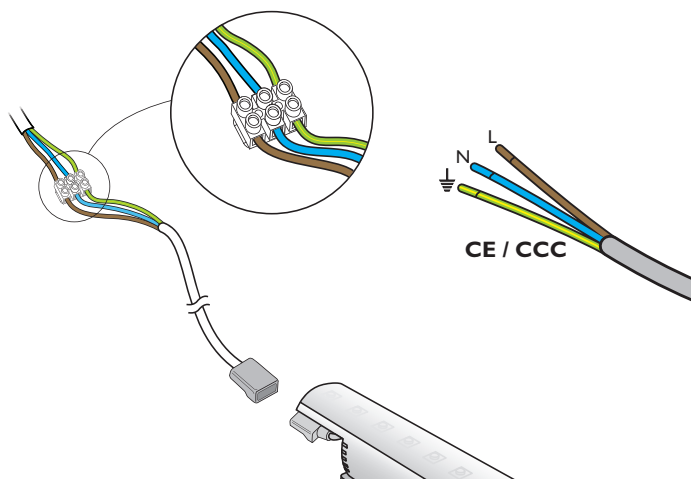
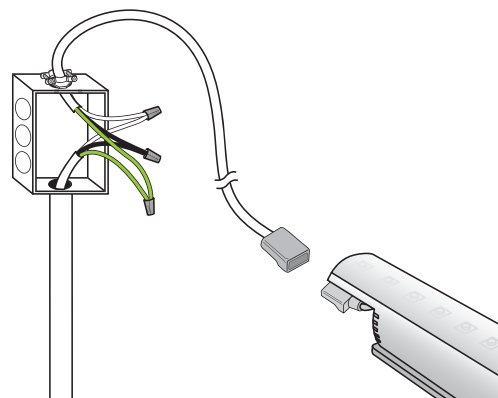


To connect the first fixture in a series to a third-party junction box using the 10 ft (3 m) Leader Cable (UL / cUL installations):

1. Remove the cover of the third-party junction box.
2. Connect ground, neutral, and line inside the junction box housing, then replace the junction box cover.
3. Connect the 10 ft (3.1m) Leader Cable to the first fixture in the series.

For CE / CCC installations:

1. Connect the Leader Cable to a terminal block. For CE installation, the terminal block must conform to EN 60998-2-1 or EN 60998-2-2, rated 220 – 240 VAC.
2. Connect ground, neutral, and line to a power source.
3. Connect the 10 ft (3 m) Leader Cable to the first fixture in the series.

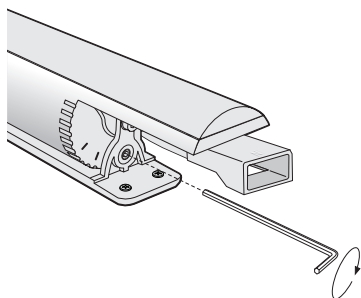


Aim and Lock the Fixtures

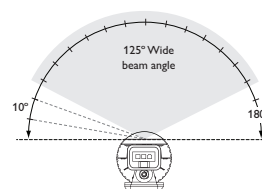
Make sure the power is ON before aiming fixtures.

Aim the fixtures by rotating each fixture to the correct angle. There are detents every 10° in the bracket that hold the fixture in position.

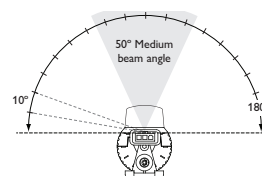
(Optional) Using a 2 mm hex key wrench, tighten the set screw located on each end of the fixture to lock the fixture in place.



*** Do not look directly into beam when aiming fixtures.**



125° x 120° beam angle



50° x 70° beam angle



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