

Cove Lighting Kit

IMPORTANT SAFETY INSTRUCTIONS

**READ ALL INSTRUCTIONS BEFORE INSTALLING FIXTURES.
SAVE THESE INSTRUCTIONS.**

Operating Temperature:
-20°C to 50°C (-4°F to 122°F)
Suitable for indoor use only.

WARNING: Make sure the power is **OFF** from the electrical panel before starting installation or attempting any maintenance.

Safety:
For your safety, this kit must be wired in accordance to local electrical codes and ordinances. All work should be done by a qualified electrician.

Failure to install and wire this kit in accordance with the National Electrical Codes (NEC), all applicable Federal, State, and Local electrical codes, as well as specific UL safety standards for the intended working environment (location/application), may cause serious personal injury or property damage. Knowledge and expertise of electrical systems is required for installing this product. *When in doubt, contact a certified electrician.*

If you have any questions during your installation, please contact our Customer Support team at support@aspectled.com or give us a call at **888.503.1317**



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More About
This Kit



TOOLS YOU'LL NEED

Measuring tape	Scissors
Small flathead screwdriver	Isopropyl alcohol
Phillips screwdriver	Single-gang electrical box
Drywall saw	Recommended: Fish tape
Wire strippers	(wire snake)
Pliers	

BEFORE YOU BEGIN



Safety First!

An easy way to remember the essential safety steps is by using the acronym **S.A.F.E.T.Y.** – a quick guide to stay safe and prepared.

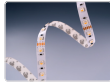
S: Shut off the power
A: Ask a licensed electrician if needed
F: Follow NEC requirements
E: Equip yourself with proper PPE
T: Treat the wires as live
Y: You are responsible



WHAT'S IN THE KIT

The kit comes in two length options: 64ft or 98ft of Endless RGBW Color Changing LED Strip Light, with all necessary accessories included.

Kit Includes:

		64ft KIT	98ft KIT
A	 Endless RGBW LED Strip Light AL-SL-EN-CC-IP20-24-RGB30-32 IC IP20 3000K RGBW	2 reels	3 reels
B	 Casambi In-Wall Wireless Dimmer Switch AL-CTLR-DIMSW-CAS	1	1
C	 250W Power Supply AL-PS-W-250-24	1	–
D	 300W Power Supply AL-PS-W-300-24	–	1
E	 14 AWG In-Wall Rated Wire AL-WIRE-14-5	30ft	30ft
F	 Jumper Connectors AL-SL-CN-WRGBW-JUMPER-1	20	30
G	 Splice Connectors AL-SL-CN-WRGBW-SPLICE-1	20	30
H	 Pigtail Connectors AL-SL-CN-WRGBW-PIGTAIL-1	20	30
I	 Control Box (Preassembled)	1	1

Control Box Includes:

Quantity

 Casambi Wireless DMX Controller, 1 Universe AL-TRK-CRN-N-ECW-2	1
 DMX 512 LED Controller AL-CTLR-DMXDEC4	1
WAGO 4-Wire Lever Nuts, 12-24 AWG	5
WAGO 3-Wire Lever Nuts, 12-24 AWG	2
Ethernet Cable	1



Plan the Layout

1. Determine where the [Endless RGBW Color Changing LED Strip Lights \(A\)](#) will be installed.
2. Measure the cove and determine the total lighting length required.
3. Measure twice before cutting.
4. Each continuous LED strip run may not exceed 32 feet. Longer installations require an additional home run using the 30 ft [14 AWG 5-Conductor In-Wall Rated Wire \(E\)](#).
5. Cut the LED strip only at the designated cut locations.
6. Use the [W-Series RGBW Solderless Jumper Bite Connectors \(F\)](#), [W-Series RGBW Solderless Splice Bite Connectors \(G\)](#), or [W-Series RGBW Solderless Pigtail Bite Connectors \(H\)](#) to reconnect strip sections or create corners. Soldering may also be used if preferred.



Install the Control Box

1. Choose an accessible location for the [Control Box \(I\)](#).
2. Mount the power supply:
 - [250W LED Power Supply \(C\)](#) for the 64 ft kit
 - [300W LED Power Supply \(D\)](#) for the 98 ft kit
3. The [Control Box \(I\)](#) comes preassembled with the Casambi Wireless DMX Controller (1 Universe), 4-Channel RGBW DMX512 Decoder & LED Driver, and Ethernet Cable.
4. Connect the field wiring using the included WAGO Lever Nuts, matching each wire color:
 - Red to Red
 - Green to Green
 - Blue to Blue
 - Black to Black
 - White to White
5. Run the 30 ft [14 AWG 5-Conductor In-Wall Rated Wire \(E\)](#) from the [Control Box \(I\)](#) to each LED strip home run.

Important:

Wire length depends on wire gauge and allowable voltage drop. Size field wiring to maintain no more than a 3% voltage drop in accordance with applicable electrical codes.



Install the Wall Switch

1. Select a location for the [Casambi In-Wall Wireless Dimmer Switch \(B\)](#).
2. Install a single-gang electrical box.
3. Run line voltage power to the box.
4. Wire the switch according to the included Casambi Installation Guide.
5. Secure the switch and install the wall plate.



Install the LED Strips

1. If using aluminum channel, install it before mounting the LED strips.
2. Measure and cut the [Endless RGBW Color Changing LED Strip Lights \(A\)](#) to fit your cove layout.
3. Connect strip sections using the [W-Series RGBW Solderless Jumper, Pigtail, or Splice Bite Connectors \(F, G & H\)](#) or solder the connections directly if preferred.
4. Clean the mounting surface with isopropyl alcohol and allow it to dry completely.
5. Peel back a small section of the adhesive liner and begin installing the strip.
6. Continue removing the liner a few inches at a time while pressing the strip firmly into place.



Configure the Casambi System

Follow our online Casambi setup guide to:

- Pair the Casambi Wireless DMX Controller, 1 Universe.
- Add the [Casambi In-Wall Wireless Dimmer Switch \(B\)](#).
- Create lighting groups and scenes.
- Configure dimming and color control.
- Complete setup in the Casambi app.

Scan the QR code for more detailed online instructions.



Test the System

1. Restore power to the system.
2. Verify all [Endless RGBW Color Changing LED Strip Lights \(A\)](#) illuminate properly.
3. Test dimming, color changing, and scene operation using the [Casambi In-Wall Wireless Dimmer Switch \(B\)](#).
4. Confirm all wiring connections are secure and operating correctly.

Share Your Work!

Thank you for choosing us for your project—we're thrilled to be a part of it! Share your finished projects with us on social media for a chance to be featured!

f in @aspectLED



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