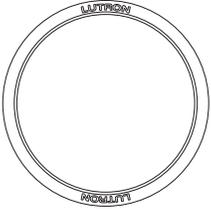


Advanced Installation Guide



Aurora Always Ready
Smart Bulb Dimmer
Z3-1BRL

Thank you for purchasing the Aurora Always Ready Smart Bulb Dimmer from Lutron. This document will guide you through several additional installation topics beyond those covered in the quick-start guide included with your product.

Table of Contents

Installation Using a Philips® Hue® Bridge	Page 2 - 4
Installation Without a Bridge (Standalone)	Page 5
Multi-location Setup without a Bridge	Page 6
Restoring Factory Defaults	Page 7
Converting from Standalone to a Bridge System.....	Page 8
Mounting	Page 9
Battery Replacement	Page 10
Troubleshooting and LED Feedback	Page 11
Removing Base from Knob	Page 12
Reliability Issues	Page 13
Difficulty Mounting to a Toggle Switch	Page 14
Unpairing Bulbs/Resetting Bulbs to Factory Defaults	Page 15
Installation Using an Unsupported Zigbee® Hub	Page 16

Aurora

Installation Using a Philips® Hue® Bridge

1 Install

Install your Philips® Hue® bridge by following the manufacturer's instructions.



Philips® Hue® bridge

NOTE: Only compatible with Philips® Hue® square-shape bridge V2. Not compatible with round-shape Bridge V1.

2 Search "Philips® Hue®" and download the app



3 Follow the on-screen prompts to commission your Philips® Hue® bridge

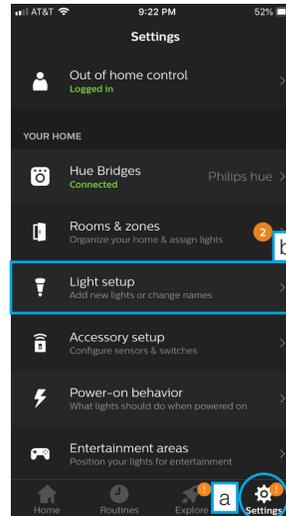
4 Update software

Update the Philips® Hue® bridge software to the latest version. The Aurora dimmer will not show up in the app without the latest Philips® Hue® bridge software.

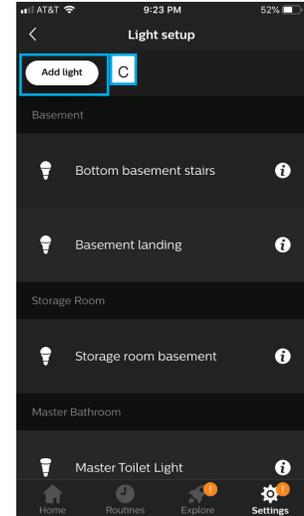
5 Install your lights

Screw in and power on your Hue® lamps.

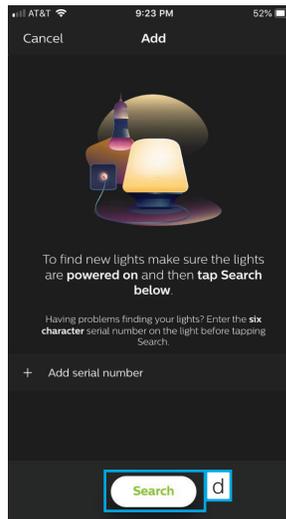
6 Add your lights to the system



Select "Settings" and then select "Light setup" from the Settings page.



Select "Add light."

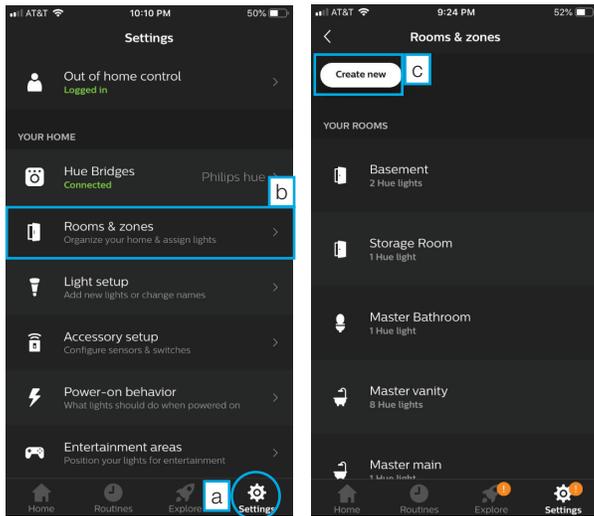


Select "Search" to populate a list of available lights.

Note: If your light is not found, you can select "Add serial number" and enter the serial number; which can be found on the individual lights.

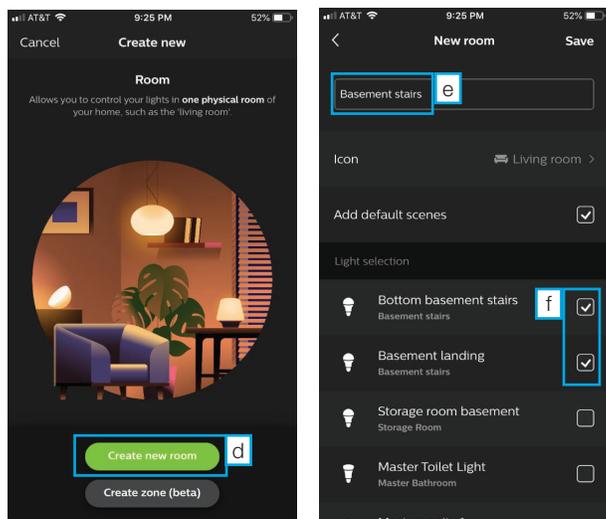
7 Create and assign rooms

Create rooms and assign your lights to the appropriate room.



Select "Settings" and then select "Rooms & zones" from the Settings page.

Select "Create new."



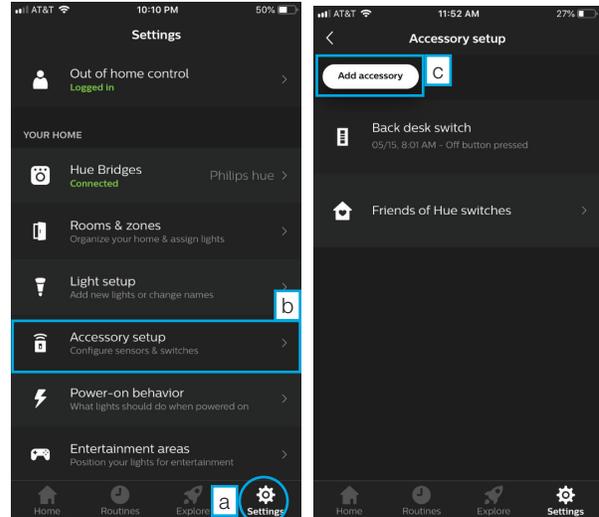
Select "Create new room."

First name your room at the top, then select the lights that you wish to add to the room. Then save your settings.

8 Add Aurora dimmer

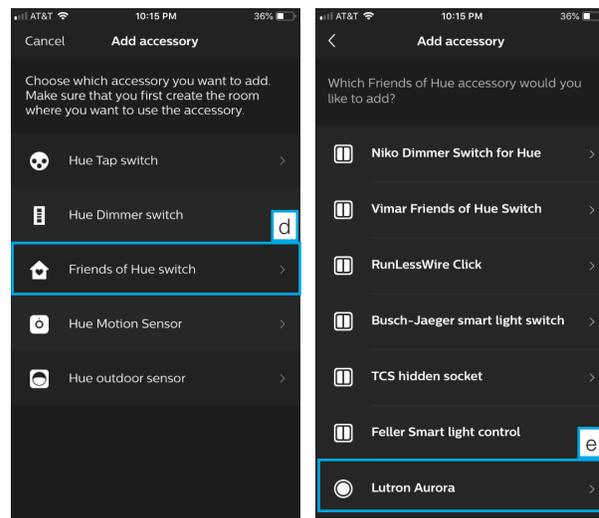
Add your Aurora dimmer to the system and select the room you want the dimmer to control.

Settings > Accessory Setup > Add Accessory > Friends of Hue® Switch



Select "Settings" and then select "Accessory setup" from the Settings page.

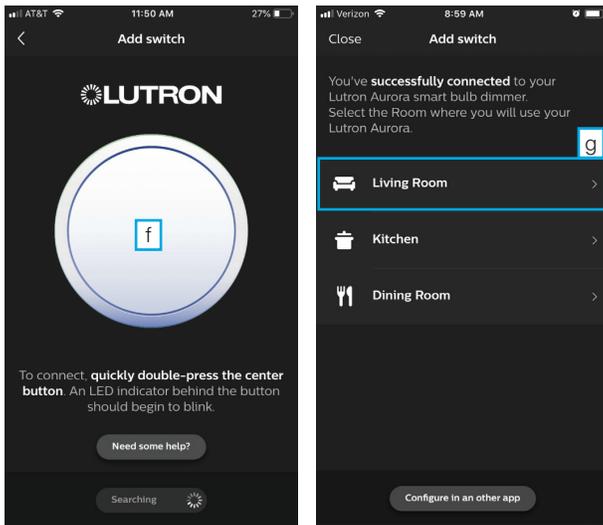
Select "Add accessory."



Select "Friends of Hue switch."

Select "Lutron Aurora" from the list of Friends of Hue switches.

8 Add Aurora dimmer (continued)



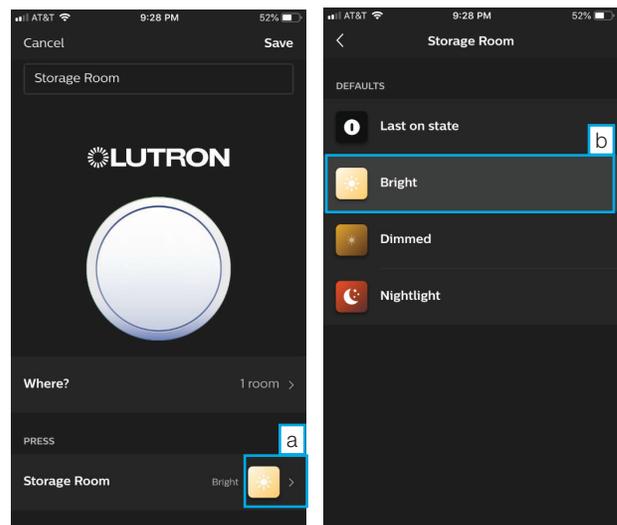
As indicated on the app screen, quickly double-press the center button on the Aurora to begin connecting.

From the list of rooms that you have previously created, select the room you want the Aurora dimmer to control.



Either select "Done" to complete the setup, or select "Change settings" if you want to change the scene which will be activated by the Aurora dimmer.

9 Select scene for dimmer to activate (Optional)



Select the icon under the header "Press" to pick from a list of scenes.

Select your desired scene, or choose to have the dimmer recall your last light level. Save your settings.

Aurora

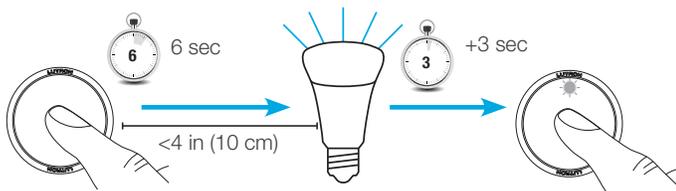
Installation Without a Bridge (Standalone)

1 Turn the desired lights OFF and then back ON



NOTE: This allows the lights to connect with controls for about 15 minutes.

2 Connect the light



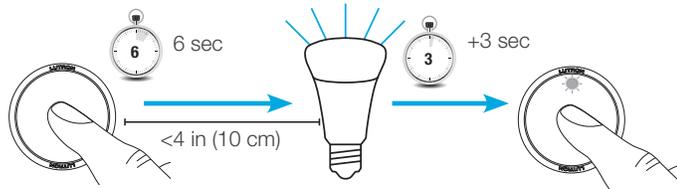
- a** While holding the Aurora dimmer as close as possible to the bulb, press and hold the button on the Aurora dimmer. The LED on the Aurora dimmer will begin to blink; continue holding for approximately 9 seconds.
After approximately 6 seconds, the selected light will flash to indicate which one you are connecting. If the light is correct, continue holding the button down. If it is the incorrect light, release the button and start over. Try holding the Aurora dimmer closer to the light you are trying to connect.
- b** Continue holding the button until the LED on the Aurora dimmer begins to rapidly flash (should be about 3 seconds after light flashed). When the LED stops flashing, Aurora is ready for use.
- c** Repeat steps a–b for all additional lights you wish to control with your Aurora dimmer.

NOTE: If you want more than one Aurora dimmer to control the same set of lights, see the **Multi-location Setup Without a Bridge** section on the next page.

NOTE: When pairing an Aurora dimmer directly to multiple Philips® Hue® bulbs (standalone), it may be easier to pair each of the bulbs one at a time in a table lamp before installing the bulbs in their final location so that you are able to get the Aurora dimmer close enough to the bulb. Additionally, having only one bulb powered at a time will ensure that the desired bulb is paired to your Aurora dimmer.

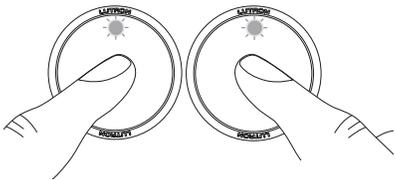
Multiple Aurora dimmers can be used to control the same group of lights in standalone mode. Special steps need to be taken to allow more than one Aurora dimmer to control the same set of lights. Without following these steps, programming a second Aurora dimmer to lights which have previously been connected to another Aurora dimmer, will result in the second Aurora dimmer stealing the lights away from the first Aurora dimmer. Please follow the steps below carefully.

1 Connect lights to first unit



- a** While holding the Aurora dimmer as close as possible to the light, press and hold the button on the Aurora dimmer. The LED on the Aurora dimmer will begin to blink, continue holding for approximately 9 seconds.
- b** After approximately 6 seconds, the light will flash to indicate which one you are connecting. If the light is correct, continue holding the button down. If it is the incorrect light, release the button and start over. Try holding the Aurora dimmer closer to the light you are trying to connect.
- c** Continue holding the button until the LED on the Aurora dimmer begins to rapidly flash.
- d** Repeat steps a–c for all additional lights you wish to control with your Aurora dimmer.

2 Pair units to each other

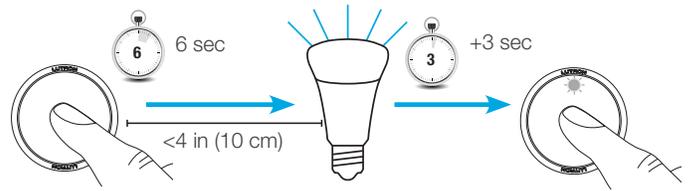


Hold both units so they are as close together as possible. Simultaneously press & hold the button on both units until the LED on both Aurora dimmers flash rapidly; approx. 12 seconds.

NOTE: It is important to connect the Aurora dimmers to each other. If you do not, the second Aurora dimmer will steal the lights away from the first Aurora dimmer when they are connected to the second unit. To add more than two Aurora dimmers, continue to connect additional factory-new or factory-default Aurora dimmers to the first unit.

NOTE: Up to 6 Aurora dimmers can be programmed to control the same set of lights in a standalone system.

3 Connect lights to second unit



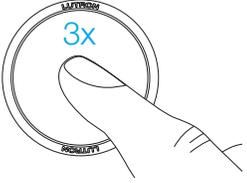
On the second unit, repeat Step 1 for all lights that the dimmer will control.

Aurora

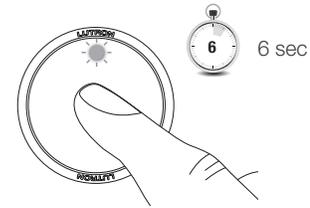
Restoring Factory Defaults

Follow the instructions below to erase device settings (including light or bridge pairings) and return to factory defaults.

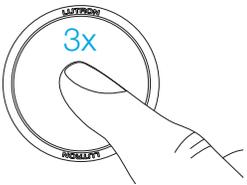
1 Tap button quickly 3x



2 On the third tap, continue holding until LED blinks (6 seconds)



3 Once LED is blinking quickly tap button 3x again. LED will flash rapidly to show success.



If you previously had an Aurora dimmer connected to a lamp without a bridge, and you wish to add it to a bridge system, please follow the steps below, or reset the lights to factory defaults as described on page 15.

1 Restore the Aurora dimmer to the factory defaults

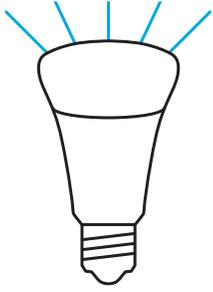
NOTE: Please see the previous section for how to Restore Factory Defaults to your Aurora dimmer.

2 Add the Aurora dimmer by following the prompts on the app (see page 2)

NOTE: The lights that were previously connected directly to an Aurora dimmer will not be automatically discovered by the app. These can be added to the system by manually typing the serial number on the light into the app.

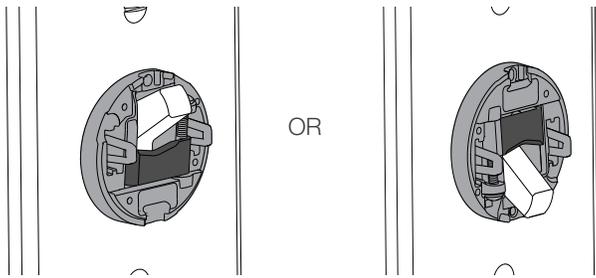
Aurora Mounting

1 Make sure light is ON

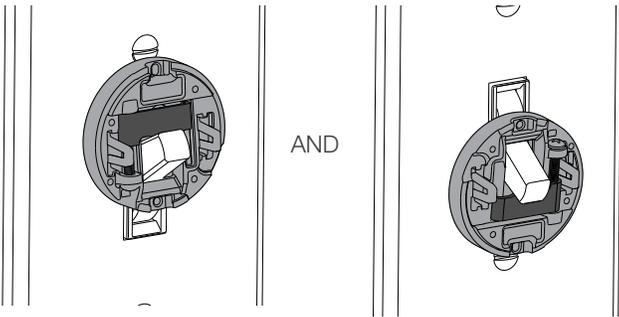


2 While the light is ON, place base over the toggle switch as shown

CORRECT

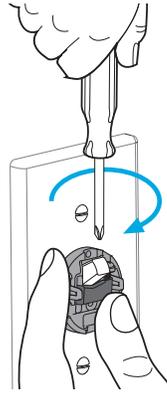


INCORRECT



NOTE: If there is more than one switch which controls a set of lights, some of the switches on that circuit will be "up" in the On position, and some will be "down" in the position which usually indicates the switch is Off. Rotate the base until it is as shown above.

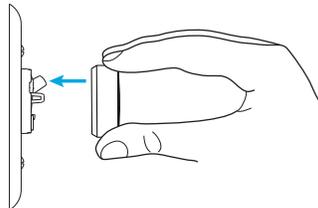
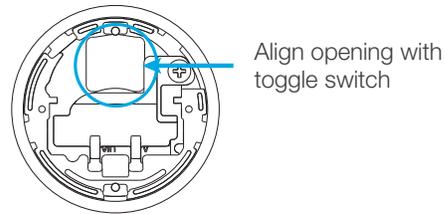
3 Install mounting base



While holding the base against the wallplate, use a Phillips head screwdriver to turn the screw until the clamp has securely attached to the toggle switch.

4 Attach knob to mounting base

NOTE: To mount the knob on the base, it is important to align the knob properly. The cutout in the back of the product is made to accommodate your toggle switch. If the knob doesn't snap on easily, double check the alignment.

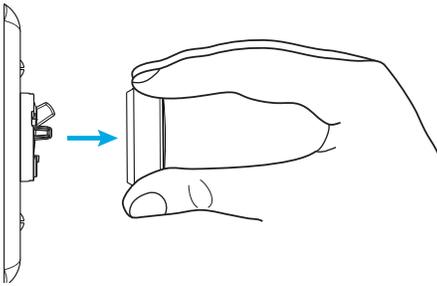


Snap knob on to the mounting base.

Aurora

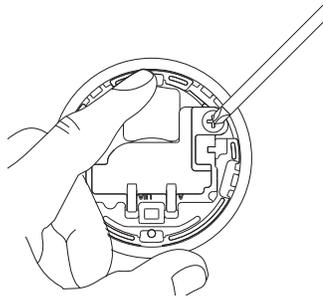
Battery Replacement

1 Pull knob away from base



Grab the outside of the knob and pull it straight away from the mounting base to remove.

2 Loosen screw and open battery door

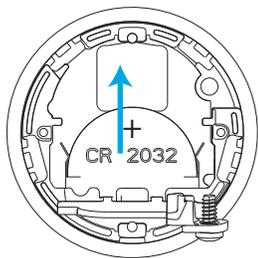


Using a #1 Phillips head screwdriver, loosen the screw in the battery door. Unscrew just enough that the battery door comes loose but the screw remains attached.



Pull down gently to open the battery door.

3 Slide to remove/install



Slide the battery straight up to remove.



WARNING: Risk of fire, explosion, and burns. May result in serious injury or death. DO NOT recharge, disassemble, crush, puncture, heat above 212 °F (100 °C) or incinerate the battery.

The battery in this device contains Perchlorate material, special handling may apply. For more information, visit www.dtsc.ca.gov/hazardouswaste/perchlorate

Tips for Removing the Battery

NOTE: Due to natural oils on your finger, it can be difficult to slide the battery out for removal. Many common household items can help.

Option 1

Place a rubber band between your finger and the battery to improve your grip.

Option 2

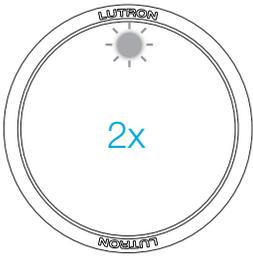
Stick a piece of scotch tape to the battery and pull to remove.

Selecting a Battery

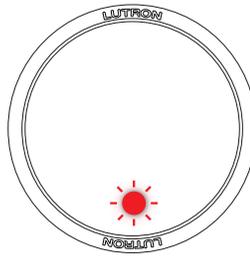
The Aurora dimmer is designed and tested with Panasonic CR2032 batteries. For the best performance, it is recommended that batteries are replaced using the same Panasonic battery.

Aurora

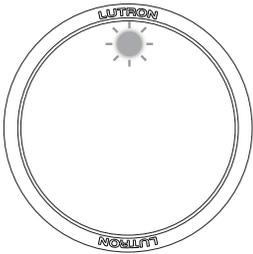
Troubleshooting and LED Feedback



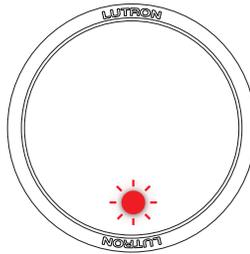
Two slow blinks after a press
(Not connected/Light is switched off)



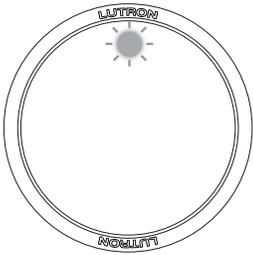
Red LED blinks after a press
(Low battery)



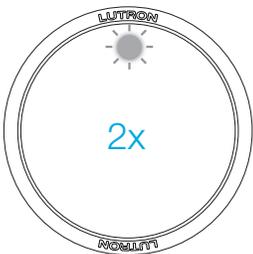
Slowly fading in and out
(Connecting is in progress)



Red LED continuously blinks without using unit
(Unit resetting, replace battery. If issue persists,
contact Lutron Customer Assistance).



Blinks rapidly
(Connecting successful)



Double blink after a press
(Communication failure)

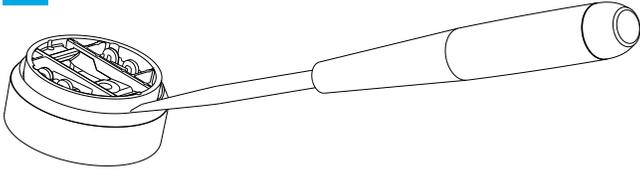
Aurora

Removing Base from Knob

If for any reason your base is attached to your knob when the base is not attached to your switch, here is how to separate the two pieces.

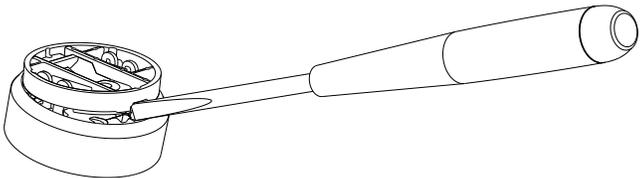
1 Use screwdriver to pull knob away from base

a



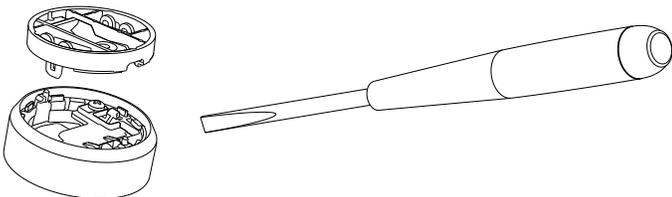
Gently insert flathead screwdriver in small slot between the mounting base and the knob.

b



Twist the flathead screw driver to unsnap the mounting base from the knob.

c

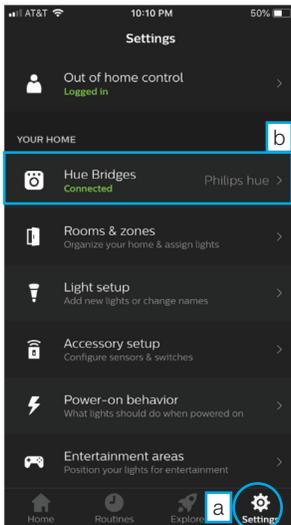


Aurora

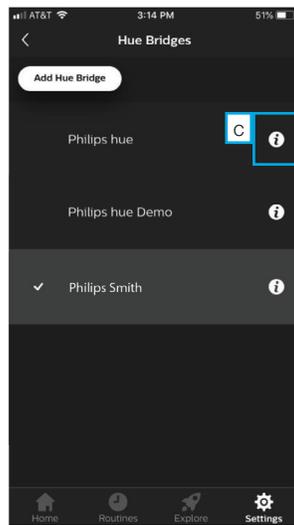
Reliability Issues

If you are experiencing issues with responsiveness of your lights to button presses or rotary dimming, you may have RF range or interference issues.

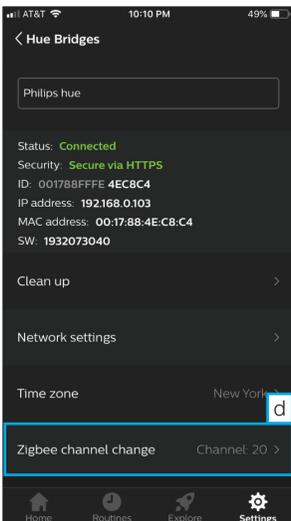
- a** Ensure your Philips® Hue® bridge is located per the manufacturer's recommendations. If using in a standalone system, ensure that the Aurora dimmer is located within 30 ft (9 m) of the closest smart light to which it is connected.
- b** Zigbee Channel Changing - since the device operates in the same 2.4 GHz wireless band as other common household products, missed button presses or rotary dimming may be caused by interference. If you are experiencing interference, you can change the RF channel that your system is using.



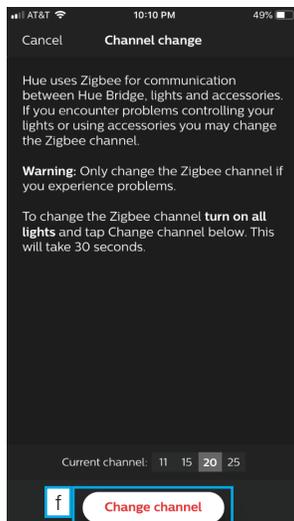
Select "Settings" and then select "Hue Bridges."



Select the information icon "i" next to the Hue bridge on which you wish to change the Zigbee channel.



Select "Zigbee channel change."



Ensure all lights are powered, then select "Change channel."

NOTE: Channel changing will take approximately 30 seconds.

Aurora

Difficulty Mounting to a Toggle Switch

Aurora toggle tape is a solution for attaching the rotary dimmer to older toggle switches made from a material to which the clamp may have difficulty attaching.

Toggle tape may be required for switches manufactured before 1980. Toggle tape is optional and should only be used if the user has tried to attach the mounting base, but was unable to securely attach to the switch.

1 Clean the toggle switch

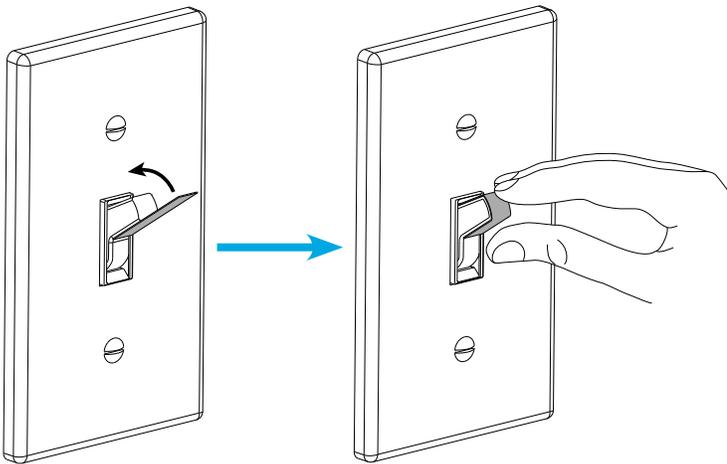
Lightly apply isopropyl alcohol on a clean cloth and use it to clean the switch. If you do not have isopropyl alcohol, dampening a clean cloth with water is an acceptable substitute.

2 Apply tape

Ensure the toggle switch is dry, then apply the toggle tape to the bottom of the toggle switch and carefully wrap around the top of the switch (shown below).

With the tape now applied, squeeze the toggle switch between your fingers to ensure it is firmly attached to the switch.

NOTE: Do NOT use scotch tape or any other household tape. It will not work as directed.



NOTE: If you do not have toggle tape, please contact Lutron Customer Assistance.

3 Install rotary dimmer as normal

Install rotary dimmer as per instructions in the Mounting section.

Aurora

Unpairing Bulbs / Resetting Bulbs to Factory Defaults

Follow the instructions below to erase all of a bulb's pairings (to remotes and/or a hub) and reset it to the "factory default" state.

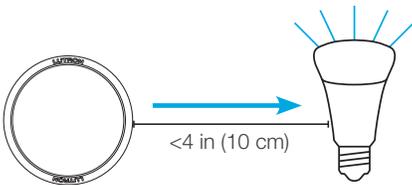
1 Turn power to the light OFF and then back ON



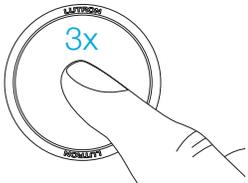
NOTE: Power must be removed and then re-applied to bulb by toggling the wall switch, by turning the lamp switch OFF and then ON, or by unscrewing and then re-screwing in the lamp (being careful to make sure it's not hot).

NOTE: This allows the lights to connect with controls for about 15 minutes.

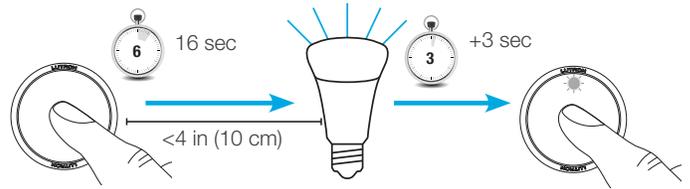
2 Hold the Aurora dimmer as close as possible to the bulb



3 Tap button quickly 3x



4 On the third tap, continue holding button for a long time (19 seconds total)



- a** The Aurora LED will "slow-flash" during this hold time – keep holding the button.
- b** After about 16 seconds of holding, the light should flash to indicate which one you are selecting. If this is the correct light, KEEP HOLDING the button. If it is not the correct light, release the button and start again from Step 2.
- c** After about 3 seconds of additional holding, the LED on Aurora should start to rapidly flash – once this happens, the bulb has been reset to factory defaults and you can release the button. If the Aurora LED doesn't rapidly flash, but instead simply stops flashing, then release the button and try the procedure again from Step 2.

Follow the instructions below to pair an Aurora dimmer to a third-party Zigbee® hub that doesn't have app support for the Aurora dimmer. If you have Philips® Hue® or other compatible ZLL lamps in the same Zigbee® hub system, then this procedure should enable you to control the lamps both from the Aurora dimmer and from the hub (via app, etc. like you controlled it before). The Aurora dimmer may not show in the third-party app after completing the steps below.

1 Start with a new or factory default Aurora

If the Aurora dimmer has already been paired to bulbs or another system before, first reset it to factory defaults (see instructions on page 7).

2 Add bulbs to the system

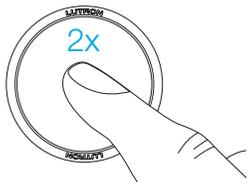
Add any desired Hue (or other compatible ZLL*) bulbs to the hub system (if they aren't already part of system).

3 Put hub into "Add Zigbee® Device" mode

In the hub's app, go to "Add Device" mode (which could be called "Add Switch", "Add Remote", "Add Other", or even "Add Bulb", depending on the app) to make hub start scanning for new Zigbee® devices.

NOTE: If the hub supports multiple wireless protocols (e.g., Zigbee® and Z-Wave®), you will need to ensure that it is put into a mode where it is scanning for new Zigbee® devices.

4 Tap button quickly 2x



Quickly double-press the center button on the Aurora to make it connect to the hub. The Aurora LED will start showing a slow "breathing" (fading up and down) animation while it is trying to connect. The Aurora will give "fast flash" LED feedback if it successfully joins the hub network (it usually takes 5-15 seconds, but in rare cases it can take up to 3 minutes). The hub's app may or may not give some sort of feedback about a device joining/being added.

* Non-Philips® Zigbee® Light Link (ZLL) lights on the market may not work with an Aurora dimmer. The results will vary depending on the particular make and model of bulb. Contact Lutron Customer Assistance if issues are encountered with a particular ZLL bulb.

5 Remove battery

Remove the Aurora's battery for 10 seconds, and then re-insert it. This is a workaround to help synchronize the Aurora with the unsupported hub type - this **MUST** be done if your unit was manufactured before October 2019, otherwise the next step won't work. If your Aurora was manufactured on or after October 2019, you shouldn't need to perform this step. To verify if this step is needed, look at the sticker on the back of the Aurora device. There should be a small 3-digit code on the left side, e.g. "4C0". The middle digit is the year, where C = 2019, D = 2020, and E = 2021. The left and right digits together are the week of the year that your unit was manufactured - if those digits are 40 or greater, or if your letter is "D" or greater, then your unit is new enough that it doesn't need this step.

6 Pair to lamps

Now you can follow the procedure described in the section "Installation Without a Bridge (Standalone)" on page 5 to pair the Aurora directly to the desired bulbs.

NOTE: If you want more than one Aurora to control the same lights, you should follow the "Installation Using an Unsupported Zigbee Hub" procedure for each one. You should **NOT** perform the "Multi-location Setup without a Bridge" procedure in this case.

7 Finish

You should now be able to control the paired bulbs from an Aurora, and from the hub app (or the other ways you previously controlled the bulbs through the hub).

Go to www.lutron.com/smartbulbdimmers for additional information.

 Lutron, Lutron and Aurora are trademarks or registered trademarks of Lutron Electronics Co., Inc. in the US and/or other countries. Apple and the Apple logo are registered trademarks of Apple Inc. App Store is a service mark of Apple Inc. All product names, logos, and brands are property of their respective owners.

Lutron Contact Numbers

WORLD HEADQUARTERS USA

Lutron Electronics Co., Inc.
7200 Suter Road
Coopersburg, PA 18036-1299
TEL: +1.610.282.3800
FAX: +1.610.282.1243
Customer Assistance: 1.844.LUTRON1
support@lutron.com
www.lutron.com/support

North & South America Technical Hotlines USA, Canada, Caribbean:

1.844.LUTRON1

Mexico:

+1.888.235.2910

Central/South America:

+1.610.282.6701