

[Manuals.plus](#) /

› [CLOUDY BAY](#) /

› CLOUDY BAY 4-Inch Smart WiFi LED Recessed Lighting User Manual

CLOUDY BAY LJD004SM

CLOUDY BAY 4-Inch Smart WiFi LED Recessed Lighting User Manual

Model: LJD004SM** | Brand: CLOUDY BAY

INTRODUCTION

This manual provides detailed instructions for the installation, setup, operation, and maintenance of your CLOUDY BAY 4-inch Smart WiFi LED Recessed Lighting. These lights feature RGBCW color changing capabilities, are compatible with Amazon Alexa and Google Home Assistant, and do not require a separate hub. Please read this manual thoroughly before installation and use to ensure proper function and safety.

SAFETY INFORMATION

- **Electrical Safety:** Installation should be performed by a qualified electrician or a person with sufficient electrical knowledge. Always turn off power at the circuit breaker before installation, maintenance, or removal.
- **Wet Location Rated:** These lights are suitable for wet locations, making them ideal for bathrooms and outdoor soffits.
- **WiFi Connection:** The lights require a 2.4GHz WiFi network for configuration and smart control. They are not compatible with 5GHz networks during the initial setup process.
- **Dimming:** These lights are designed for app and voice control dimming (1%-100% smooth dimming). They are not compatible with traditional physical dimmer switches. Using a physical dimmer switch may cause flickering or damage.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

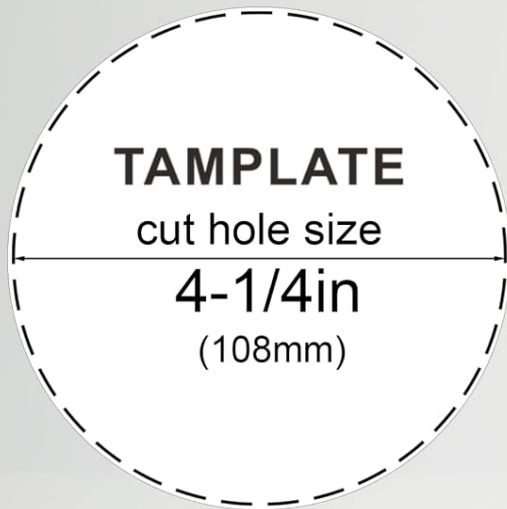
SPECIFICATIONS

Feature	Detail
Brand	CLOUDY BAY
Model Number	LJD004SM**
Size	4 Inch
Color	RGBCW (Red, Green, Blue, Cool White, Warm White)
Material	Aluminum, Plastic

Wattage	10 Watts
Brightness	650 Lumens
Color Temperature	2700K-6500K (Adjustable)
CRI	90+
Voltage	120 Volts
Control Method	App (CloudyBay APP), Voice (Amazon Alexa, Google Assistant)
Indoor/Outdoor Usage	Indoor, Outdoor (Wet Location)
Dimensions (Fixture)	4.75"L x 4.75"W x 1"H
Item Weight	12.8 ounces
Certifications	ETL listed, FCC certified

Product Dimensions

PRODUCT DETAILS



⚠ Not fit with remodel or new construction housing with 4-1/2" to 4-5/8" holes!!

Goof ring is recommended if you have 4-1/2" to 4-5/8" holes already

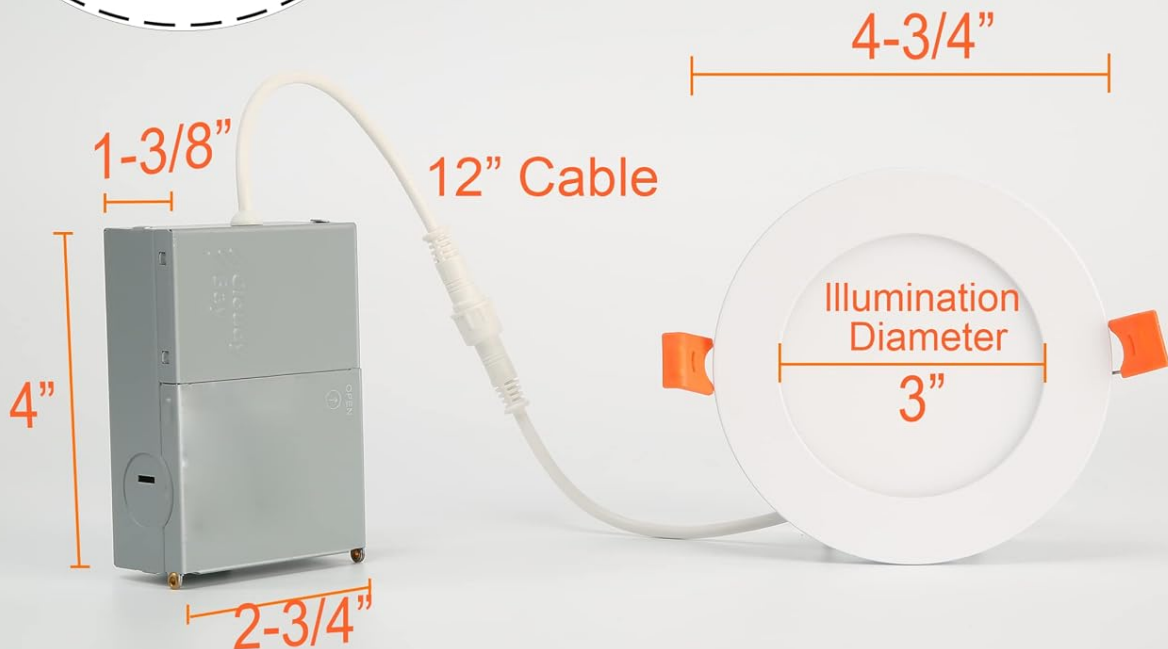


Image: Detailed dimensions of the recessed light and its external driver box. The light fixture has a 4-3/4 inch diameter and is 1 inch thick. The junction box measures 4 inches in length, 2-3/4 inches in width, and 1-3/8 inches in height, connected by a 12-inch cable.

INSTALLATION

Important: Ensure power is turned off at the circuit breaker before beginning installation.

1. **Prepare the Hole:** Cut a 4-1/4 inch (108mm) diameter hole in the ceiling. A 1:1 hole template is typically provided in the package for accuracy. **Note:** These lights are not suitable for remodel or new construction housing with existing holes between 4-1/2 inches to 4-5/8 inches. A goof ring is recommended if your existing holes are within this range.
2. **Connect Wiring:** Open the junction box (J-box). Feed the supply wires into the knockout hole and make all necessary electrical connections according to local electrical codes. The junction box features push connectors for easy wiring.
3. **Insert J-box:** Insert the connected junction box into the ceiling opening.
4. **Secure Fixture:** Hold the spring clips on the side of the fixture against the body and gently guide the fixture into the ceiling opening until the clips snap into place, securing the light.

Installation Steps Overview



Image: A visual guide illustrating the four main installation steps: 1) Cutting a 4-1/4 inch hole, 2) Connecting wires in the J-box, 3) Inserting the J-box into the ceiling, and 4) Securing the fixture with spring clips.

Cut Hole Size Guide

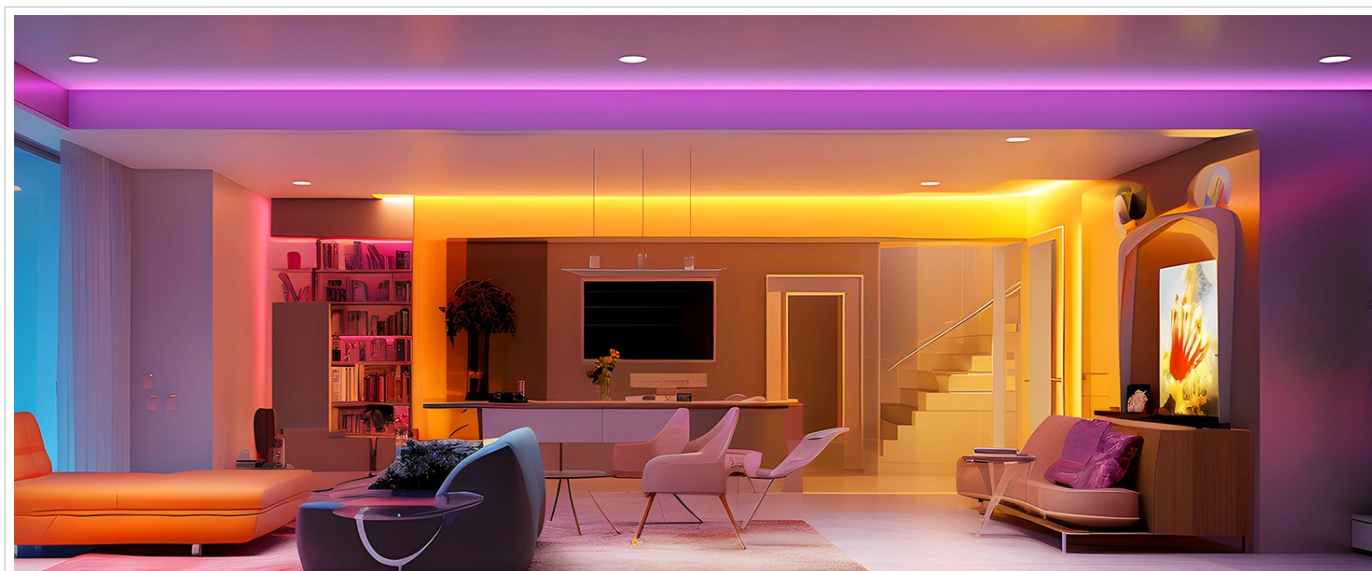


Image: A diagram indicating that a 4-1/4 inch cut hole is correct, while 4-1/2 inch and 4-5/8 inch holes are incorrect for direct installation without a goof ring.

SETUP

To enable smart features, you need to connect your lights to the CloudyBay APP and your home WiFi network.

Initial Connection Steps

1. **Prepare 2.4GHz Wi-Fi:** Ensure your router is broadcasting a 2.4GHz Wi-Fi signal.
2. **Download App:** Download the "CloudyBay" APP from your device's app store. Register and log in.
3. **Power Cycle Lights:** Turn the lights on/off 3 times until they begin to breathe (slowly blink), indicating pairing mode.
4. **Add Device in App:** Open the CloudyBay APP, connect your phone to the 2.4GHz Wi-Fi, and click "Add Device" in the top right corner.
5. **Enter Wi-Fi Information:** Input your Wi-Fi password.

6. **Confirm Connection:** Wait for a few seconds until the lights appear in the app, confirming successful connection.

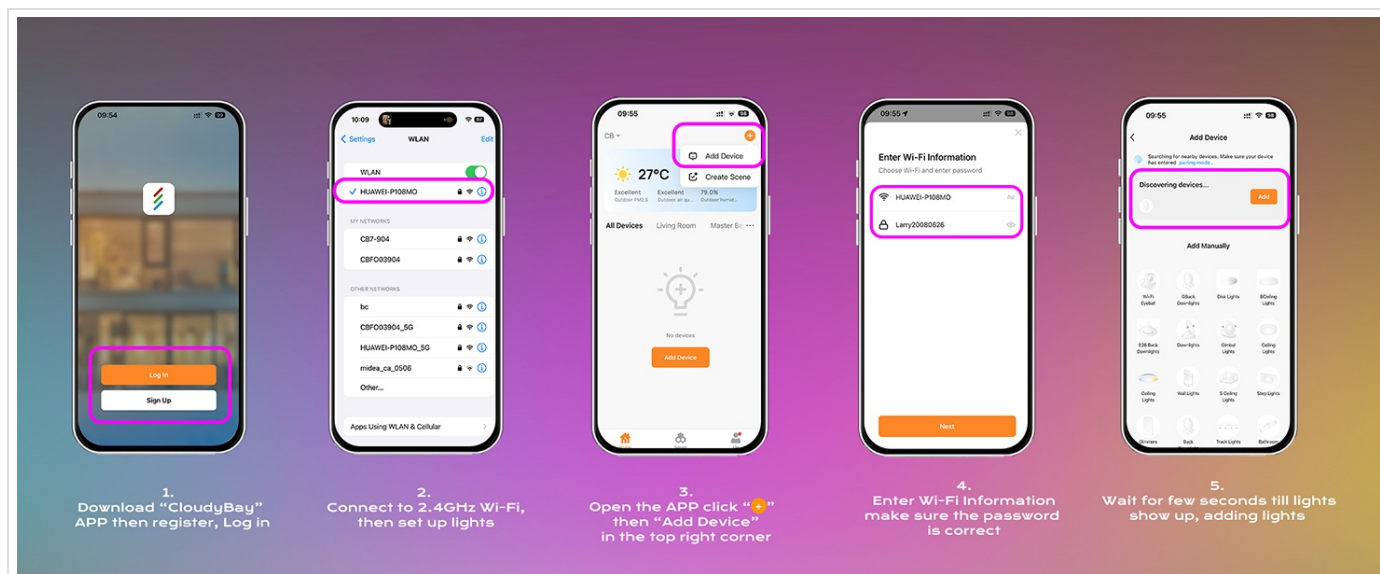


Image: A visual representation of the four-step process to connect the lights: 1) Prepare 2.4GHz Wi-Fi, 2) Connect phone to Wi-Fi and open app, 3) Set up lights by power cycling, and 4) Link to Alexa or Google Assistant.

App Connection Details

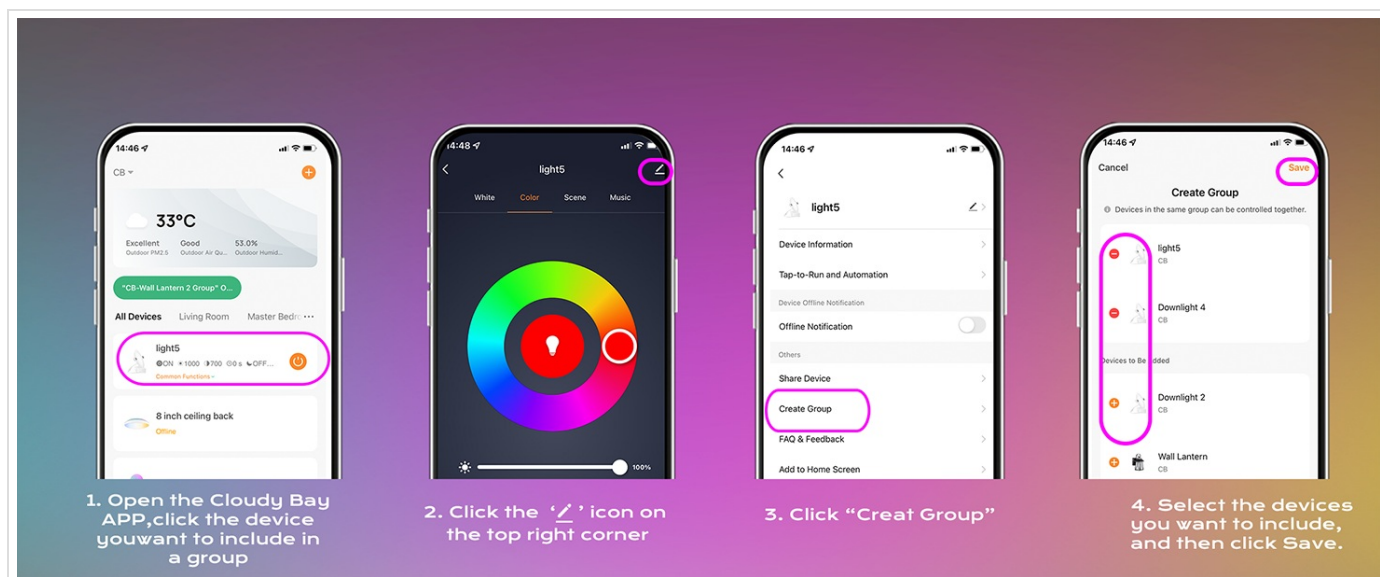


Image: Screenshots guiding users through downloading the CloudyBay APP, connecting to 2.4GHz Wi-Fi, adding a device, entering Wi-Fi information, and confirming device discovery.

Grouping Lights

You can group multiple lights together for simultaneous control, which is useful for large areas or rooms with several fixtures.

1. **Select Device:** Open the CloudyBay APP and click on the device you want to include in a group.
2. **Access Settings:** Click the 'pencil' icon on the top right corner of the device control screen.
3. **Create Group:** Select "Create Group" from the options.
4. **Add Devices:** Select all the devices you wish to include in this group and then click "Save".

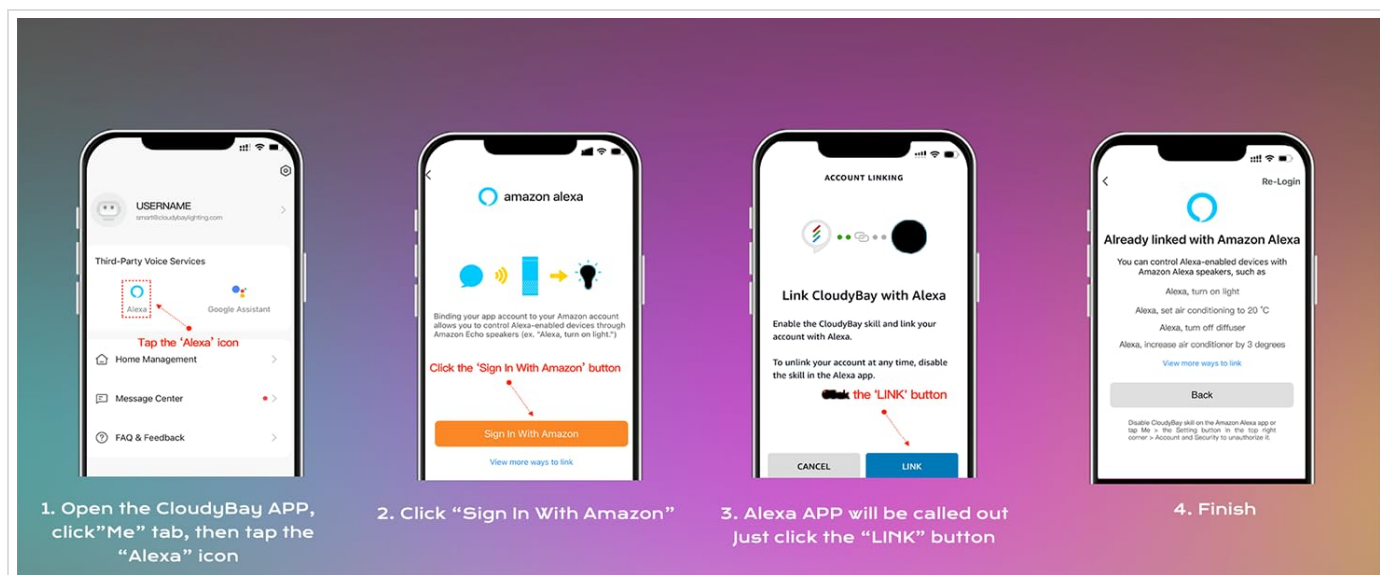


Image: Screenshots detailing the process of selecting a light, accessing its settings, choosing 'Create Group', and adding other lights to form a group within the CloudyBay app.

Linking with Alexa or Google Assistant

Integrate your smart lights with voice assistants for hands-free control.

1. **Open CloudyBay App:** In the CloudyBay APP, go to the "Me" tab and tap the "Alexa" or "Google Assistant" icon.
2. **Sign In:** Click "Sign In With Amazon" or follow the prompts for Google Assistant.
3. **Link Account:** The Alexa APP will open. Just click the "LINK" button to enable the CloudyBay skill and link your account.
4. **Finish:** Complete the linking process. You can now control your lights using voice commands.

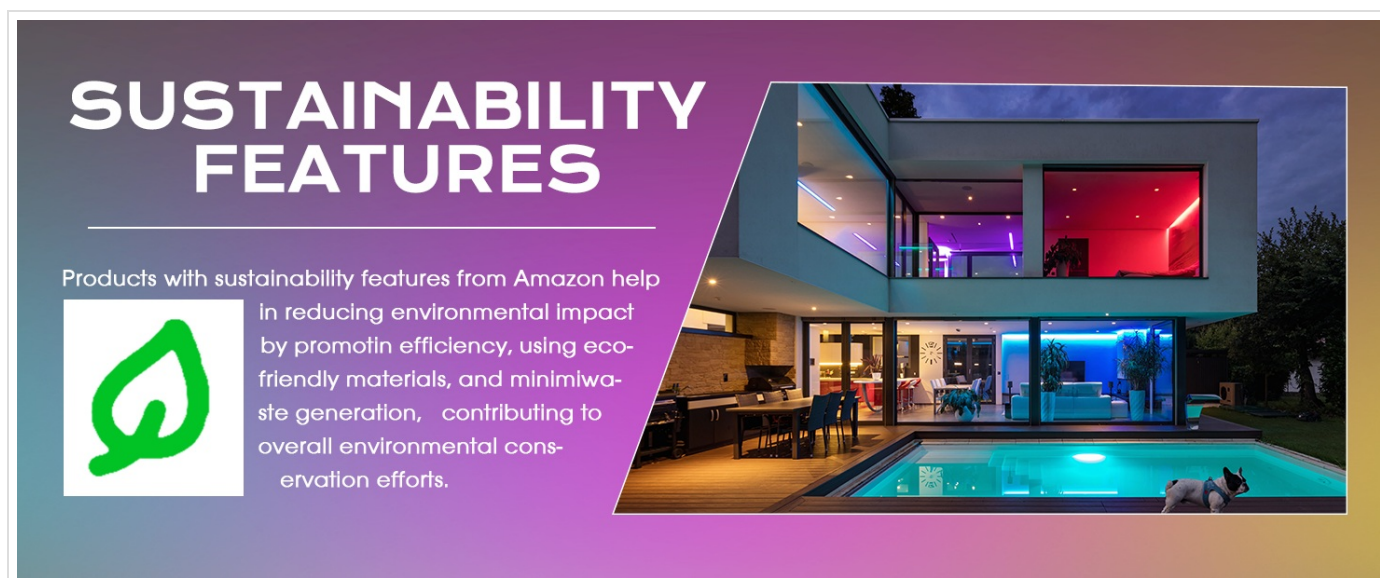


Image: Screenshots illustrating the steps to link your CloudyBay account with Amazon Alexa for voice control, including signing in and enabling the skill.

OPERATING INSTRUCTIONS

Your CLOUDY BAY smart lights offer various control options for a customized lighting experience.

App Control

The CloudyBay APP allows precise control over your lighting:

- **Brightness Adjustment:** Adjust brightness from 1% to 100%.
- **Color Temperature (CCT) Selection:** Choose color temperatures from 2700K (warm white) to 6500K (cool white).
- **RGB Color Changing:** Select from over 16 million colors to match your mood or decor.
- **Scenario Customization:** Create and save up to 8 custom lighting scenarios for different activities like reading, working, or relaxing.

16+ MILLION COLORS + MUSIC SYNC



Image: A smartphone displaying the CloudyBay app, showing a color wheel for RGB selection and a slider for brightness adjustment.

Voice Control

Control your lights hands-free using Amazon Alexa or Google Assistant.

- **Simple Commands:** Use phrases like "Alexa, dim the light to 20%" or "Hey Google, turn the lights to warm white."

- **Adjust Settings:** Control brightness, color temperature, and RGB color using voice commands.

VOICE CONTROL

Start Hands-free smart life from now on



Image: Two individuals on a couch, with speech bubbles indicating voice commands like "Alexa, set the lights to 10% brightness" and "Hey, Google, turn the lights to warm white," demonstrating voice control functionality.

Music Sync

Experience dynamic lighting that changes with the rhythm of your music.

- **Immersive Experience:** The lights can follow the beats of your music, creating an engaging atmosphere.

GROUP CONTROL

This feature is especially useful for large open spaces or rooms with multiple light fixtures, allowing you to easily manage the lighting with just one command



Image: A vibrant scene with people celebrating, and the room lights changing colors in sync with music notes, illustrating the music sync feature.

Group Control

Manage multiple lights simultaneously by grouping them in the app.

- **Unified Control:** Control all lights in a group with a single command, ideal for open-plan spaces.

GROUP CONTROL + SCHEDULE

Bed Room Lights
☁️ 23:00 Turn Off

Living Room Lights
☁️ 23:00 Turn Off

Soffit Lights
☀️ 18:00 Turn On

Patio Lights
☀️ 18:00 Turn On

1. Open the Cloudy Bay APP, click the device you want to include in a group

2. Click the icon on the top right corner

3. Click "Create Group"

4. Select the devices you want to include, and then click Save.

Image: An illustration of a house with various areas (e.g., Bedroom, Living Room, Patio) highlighted, demonstrating how lights in different zones can be grouped and controlled via the app.

Remote Control, Timer, and Schedule Functions

Enhance convenience and energy efficiency with these smart features:

- **Remote Control:** Turn lights on/off remotely from anywhere using your smartphone.
- **Timer Function:** Set lights to turn on or off at specific times.
- **Scheduling:** Create custom lighting schedules for different days or routines.

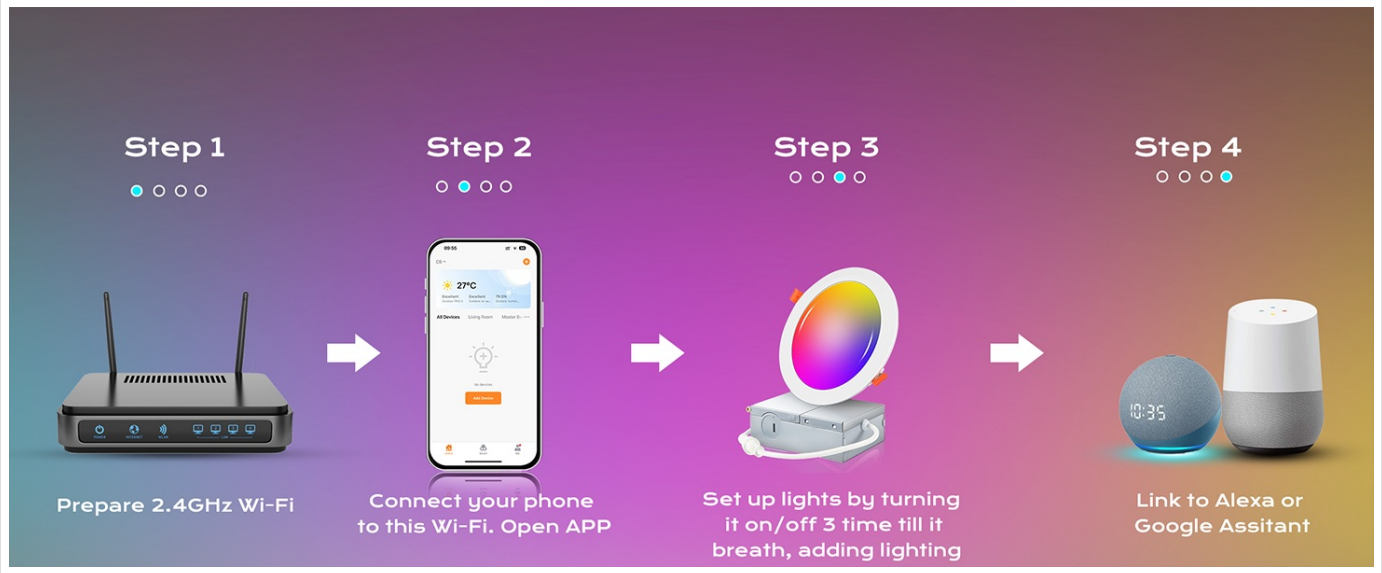


Image: A child sleeping peacefully, with graphics indicating a light turning on at 18:00 and turning off at 7:00, illustrating the timer/schedule function.

MAINTENANCE

These LED recessed lights require minimal maintenance.

- **Cleaning:** Ensure the power is off before cleaning. Wipe the fixture with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **No Bulb Replacement:** The integrated LED design means there are no bulbs to replace.
- **Firmware Updates:** Periodically check the CloudyBay APP for any available firmware updates for your lights to ensure optimal performance and security.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power, loose wiring, faulty fixture.	Check circuit breaker. Ensure all wire connections are secure. If problem persists, contact support.
Light flickers or does not dim properly.	Incompatible dimmer switch, unstable power supply.	Ensure no physical dimmer switch is used. Only use app or voice control for dimming. Check power supply stability.
Cannot connect to Wi-Fi or app.	Incorrect Wi-Fi band, weak signal, incorrect password, light not in pairing mode.	Ensure you are connecting to a 2.4GHz Wi-Fi network. Verify Wi-Fi password. Move router closer or use a Wi-Fi extender. Power cycle the light 3 times to enter pairing mode.
Voice control (Alexa/Google) not working.	Account not linked, incorrect device name, Wi-Fi issue.	Verify CloudyBay account is linked to Alexa/Google Home. Check device names in the app and voice assistant. Ensure stable Wi-Fi connection.
Lights randomly disconnect from network.	Weak Wi-Fi signal, network interference.	Improve Wi-Fi signal strength (e.g., move router, use extender). Avoid placing lights near large metal objects or HVAC ducts that may block signals.

WARRANTY AND SUPPORT

CLOUDY BAY products come with a limited warranty. For specific warranty details, please refer to the documentation included with your purchase or contact customer service.

If you encounter any problems with your smart recessed lighting, please contact our after-sale service for assistance. Our support team is available to help with installation, setup, and troubleshooting.

Contact Information: Please refer to the CLOUDY BAY official website or your purchase documentation for the most current contact details.

ADDITIONAL RESOURCES

For further assistance, you may find the following resources helpful:

- [Installation Manual \(PDF\)](#)
- [User Manual \(PDF\)](#)

Product Video: Smart LED Recessed Light Overview

Your browser does not support the video tag.

Video: An official product video from the seller providing an overview of the CLOUDY BAY Smart LED Recessed Light, demonstrating its features and functionality.

© 2026 CLOUDY BAY. All rights reserved.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

