

INSTRUCTIONS

FIELD-ADJUSTABLE ALBERT™ INSTALLATION



RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

**** DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. ****



ALB2



ALB4

IMPORTANT

READ CAREFULLY BEFORE INSTALLING FIXTURE. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB fixtures must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

WARNING: Make certain power is OFF before installing or maintaining fixture. No user serviceable parts inside.

Suitable for damp locations.

Suitable for operation in ambient temperatures not exceeding 40°C (104°F).

The fixture ships with hardware for surface mounting. **V-Hooks and Chain** (sold separately as **ALB VHOOK**) can be used as an alternate mounting method. Multiple fixtures can be wired together in a continuous run using a join kit (sold separately as **ALB JOIN KIT**). Follow the steps below in order, referring to the mounting option sections where noted.

What's in the Box	# of pieces	
Anchor	4 for 2ft&4ft	
Screw	4 for 2ft&4ft	
Joiner Connector	1 for 2ft&4ft	

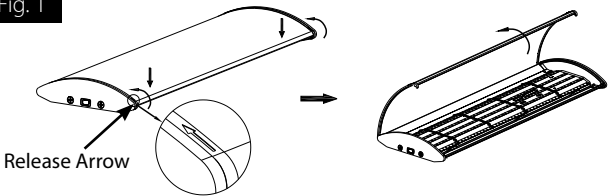
Catalog Number	Maximum # of Connected Fixtures
ALB2	Up to 16 fixtures
ALB4	Up to 8 fixtures

INSTALLATION

1. Using two hands apply pressure to the **Release Arrows**. Pull the **Lens** and open (Fig. 1).

Fig. 3

Fig. 1



2. Push the **Slide Latches** and open the hinged **LED Tray** (Fig. 2, 3).

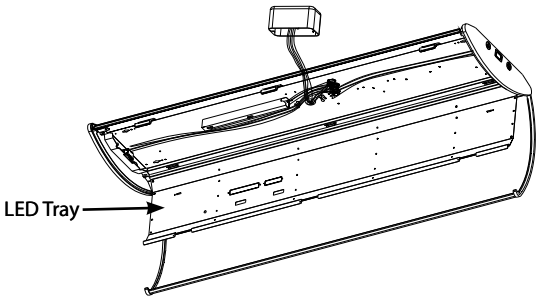
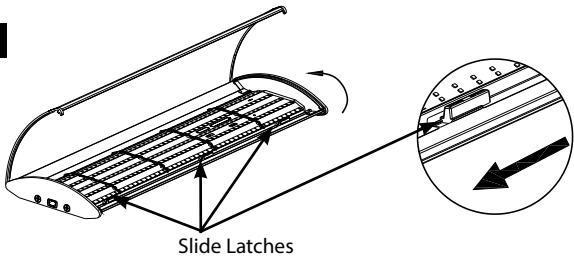


Fig. 2



3. Mount the fixture, **Surface** or **V-Hook / Chain Mounting** as shown below, depending on applications.
4. If wiring multiple fixtures together, complete **Continuous Run Mounting** as shown below before making the wiring connections in the next step.

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SURFACE MOUNTING

1. Determine mounting height and spacing based on the application. Mark the surface as appropriate (Fig. 4) for mounting. Use provided or appropriate hardware for the mounting surface to attach the fixture (Fig. 5).

Fig. 4

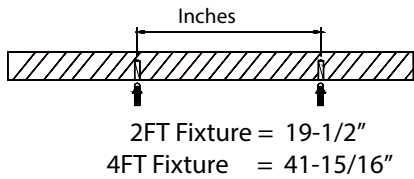
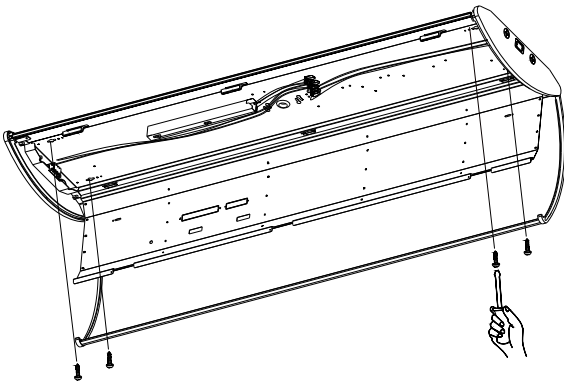


Fig. 5

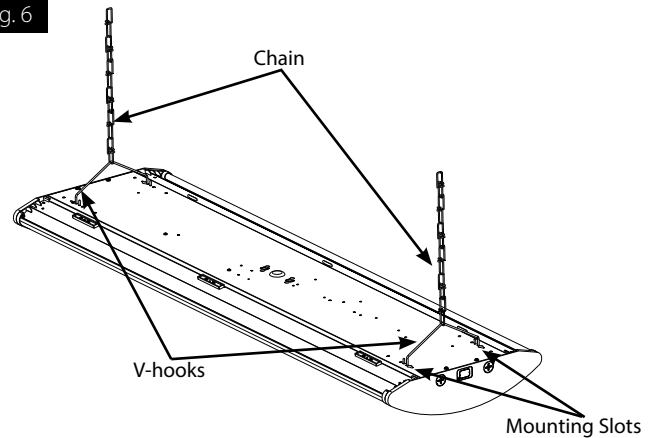


V-HOOK/CHAIN MOUNTING

V-Hooks and **Chains** are sold separately as **ALB VHOOK**.

1. Determine mounting height and spacing based on the application. Loop the **V-Hooks** in the **Mounting Slots** at each end of **Housing** (Fig. 6).

Fig. 6



2. Connect the **Chains** to the mounting surface and hang the fixture from the **V-Hooks** - **Vhook and Chain** hardware is rated to support four (4) times the weight of the fixture.
3. Make power connections, refer to wiring diagram Fig. 7.

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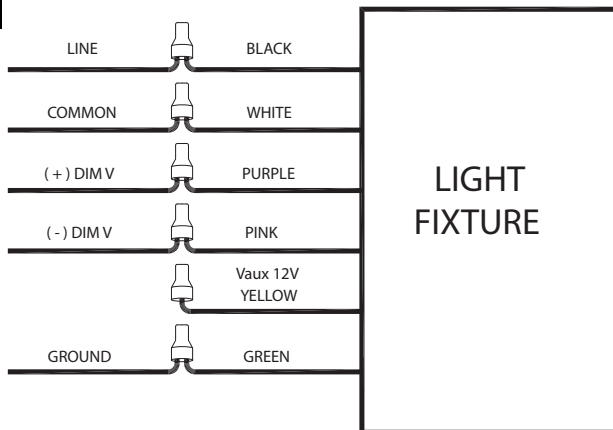
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5. Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. For 0-10 dimming follow the wiring directions as shown in Fig. 7.

- Connect the black fixture lead to the **LINE** supply lead.
- Connect the white fixture lead to the **COMMON** supply lead.
- Connect the green wire from fixture to supply **GROUND**.
- Connect the purple fixture lead to the DIM (+) lead.
- Connect the pink fixture lead to the DIM (-) lead.
- Cap yellow lead (*Vaux 12*) if present and unused.

Note: Use UL-certified wire connectors per code and avoid pinching wires or routing them against sharp objects.

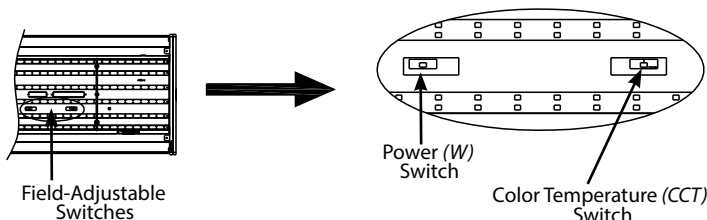
Fig. 7



Note: Lighcloud Blue models do not require a 0-10V dimming circuit. Wire to constant power - DO NOT wire downstream from any load-switching device.

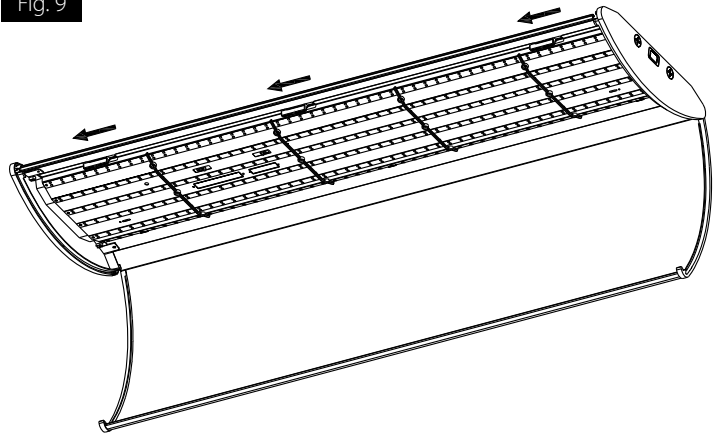
6. Locate the field-adjustable **Power (W) Switch** and **Color Temperature (CCT) Switch** (Fig. 8) and slide each to the desired setting.

Fig. 8



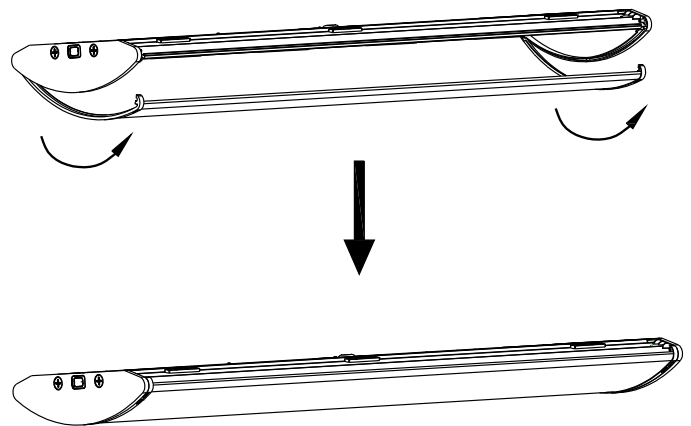
7. Close the **LED Tray** and slide the **Latches** to lock in place (Fig. 9).

Fig. 9



8. Close the **Lens** (snap into place) to finish the installation (Fig. 10).

Fig. 10



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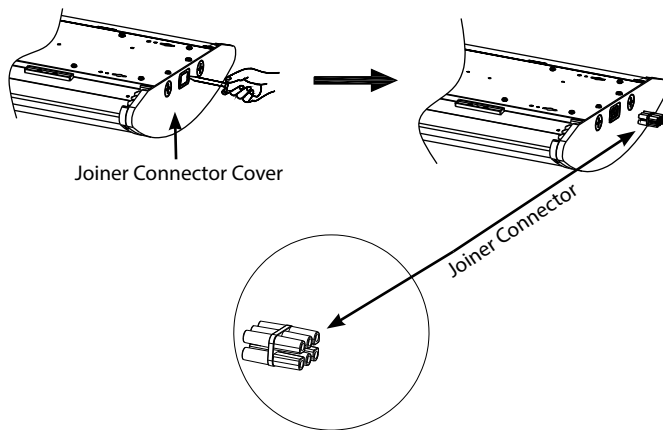
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CONTINUOUS RUN MOUNTING

The join kit is sold separately as **ALB JOIN KIT**. See the table below for the maximum number of fixtures that can be joined in a single run.

1. Use a small screwdriver to remove the **Joiner Connector Cover**, then insert the **Joiner Connector** (Fig. 11).

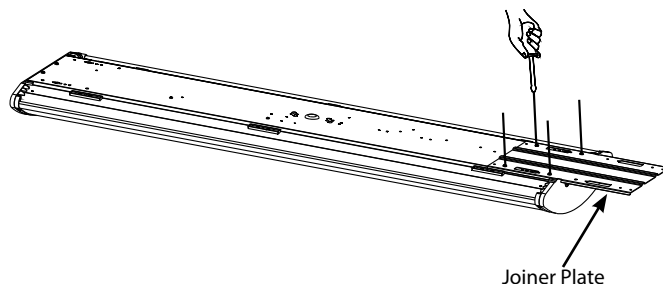
Fig. 11



Catalog Number	Maximum # of Connected Fixtures
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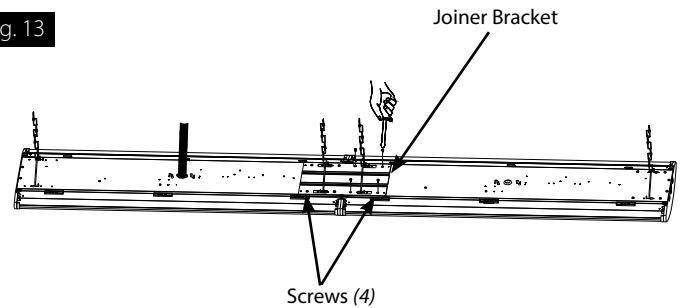
2. For **V-Hook/Chain** continuous run, install the **Joiner Plate** as shown in Fig. 12.

Fig. 12



3. Secure the next fixture to the **Joiner Bracket** with screws (Fig. 13). Only the first fixture in the run needs to be connected to external power - subsequent fixtures receive power through the **Joiner Connector**.

Fig. 13



4. Make power connections, refer to wiring diagram Fig. 7.

OCCUPANCY SENSORS

Sensors can be configured for each application. All sensors have the following default behaviors in Occupancy mode. Standard sensors can be configured using the MSR1 Remote (*sold separately*) and Lightcloud Blue sensors can be configured using the mobile app.

drive.rablighting.com/Occupancy-Sensor-Guide/1/

CLEANING & MAINTENANCE

Wash Lens with warm water and mild non-abrasive detergent: rinse and wipe dry.

CAUTION: Fixture must be cool to the touch before cleaning.

WARNING: Do not clean or service while energized. Disconnect power first. **WARNING:** Polycarbonate is damaged by some cleaning chemicals. See list of damaging chemicals on product information web page for chemical list:

rablighting.com/downloads/resources/damaging_chemical_list/damaging-chemical-list.pdf

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Be sure the fixture is grounded properly.

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LIGHTCLOUD BLUE MODELS

LIGHTCLOUD BLUE

Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned using the Lightcloud Blue mobile app.

Each device in a system can communicate with any other device, eliminating the need for a Gateway or Hub and maximizing the control system's reach.

ALL FIXTURES MUST BE WIRED TO CONSTANT POWER (HOT FEED) FOR WIRELESS COMMUNICATION.

CREATE A RELIABLE MESH

Lightcloud Blue devices should be placed within the specified range (~60 ft) to communicate within the Bluetooth Mesh network. Building materials such as brick, concrete and steel construction or heavy vegetation, bushes or trees may require additional Lightcloud Blue devices to extend around an obstruction. Contact RAB Lighting for more information.

DOWNLOAD THE MOBILE APP

Lightcloud Blue mobile app is available for IOS and Android mobile phones and tablets. The mobile app is required to commission and configure the Lightcloud Blue fixtures and devices.

Note: The mobile device is NOT part of the mesh network and must be within ≤30 ft from at least one device paired to the Site.



IOS Users



Android Users

GETTING STARTED

1. Confirm your device is powered On.
2. Launch the App and create an account or login.
3. Tap the "add device" icon in the app to start connecting devices.
4. Select the fixture in the app and move it to an Area.
5. You are all set!

RESET TO FACTORY SETTINGS

If your Lightcloud Blue fixture is already paired, you can reset it to factory settings by using below methods.

Method 1: Delete from the App

Open the app and access the device settings for the paired fixture. Confirm the fixture is online (green status bars are visible), then select "Delete from Site."

Method 2: Manual

Power the fixture off and on 5 times consecutively. Allow no less than 5 seconds and no more than 10 seconds between switching off and back on, and no more than 2 seconds between switching on and back off. The fixture will flash 3 times, then reset to 100% brightness at the default CCT.

Method 3: Rapid Reset Tool

This method must be performed by a professional electrician qualified by RAB. Contact your RAB sales manager to request a Rapid Reset Tool. Hold the tool directly against the fixture for 2 seconds. The fixture will flash 3 times, then reset to 100% brightness at the default CCT.



CONFIGURATION

All configuration of Lightcloud Blue products may be performed using the Lightcloud Blue mobile app. For additional startup information, visit rablighting.com/lcb



System overview



Resources

POWER OUTAGE RECOVERY

If there is a power loss, the Lightcloud Blue light will turn on at last dim level when power is restored. This behavior can be adjusted to last state using Schedules. When using Schedules, be sure to add a NANO/LCB (*sold separately*) to maintain accurate timekeeping after a power loss.

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BATTERY BACKUP MODELS

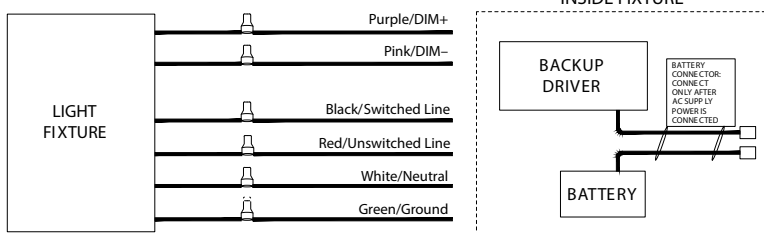
WIRING

Note: An unswitched AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver — see wiring diagram (Fig. 14).

CAUTION: Do not use any supply voltage other than 120-277V 50/60 Hz.

1. Connect **UNSWITCHED HOT** fixture lead to **HOT AC** supply line.
2. If using an **UNSWITCHED** circuit, connect **UNSWITCHED** and **SWITCHED** lines together.
3. After installation is complete, supply AC power to the fixture and connect the **BATTERY**.
4. When power is on, the fixture should be on and the **CHARGING INDICATOR LIGHT** should illuminate to indicate the battery is charging.
5. Once the **BATTERY** has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** as shown in Fig.15. After the battery has charged for 24 hours, a long duration test can be performed by disconnecting power to the fixture.

Fig. 14



Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.

OPERATION

1. When AC power is applied the charging indicator light is illuminated indicating that the **BATTERY** is being charged.
2. When power fails the emergency driver automatically switches to emergency power (*internal battery*) operating at reduced illumination.
3. When AC power is restored the emergency driver automatically returns to charging mode.

MAINTENANCE

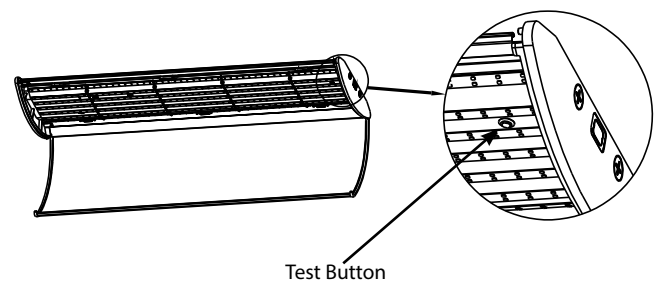
Although no routine maintenance is required to keep the emergency driver functional, it should be checked periodically to ensure that it is working. The following schedule is recommended:

1. Visually inspect the charging indicator light monthly. It should be illuminated
2. Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds.
3. Conduct a 90-minute discharge test once a year. Fixture would operate at reduced illumination for a minimum of 90 minutes.

TROUBLESHOOTING

1. Be sure the fixture is grounded properly.
2. If the charging indicator light does not illuminate after pressing the **Test Button** (Fig. 15), check if battery is connected properly. Check AC power.
3. **Test Button:**
 - RED Indicator Light - **On:** Power is on and battery is charging
 - RED Indicator Light - **Off:** Power is off or test button being pressed (*battery is discharging*)

FIG. 15



Easy Answers

rablighting.com

Visit our website for product info

Tech Help Line

Call our experts: 888 722-1000

e-mail

Answered promptly - tech@rablighting.com

Free Lighting Layouts

Answered online or by request