

INSTRUCTIONS

AL22™ FIELD-ADJUSTABLE 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. ****



AL22-150



AL22-300

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.

WARNING: Do not use an electric generator to test LED fixtures.

WARNING: Min 75°C SUPPLY CONDUCTORS. Class 1 Wiring only.

Suitable for wet locations. Suitable for Ambient not exceeding 50°C/122°F (40°C/40°F).

MOUNTING THE UNIVERSAL ADJUSTABLE ARM TO THE FIXTURE

Notice: Adjustable angle is 0-35°.

1. Remove the **Arm Cover** from the **Arm** by loosening **Arm Cover Screws** as shown in Fig. 1.
2. Feed wires from fixture into **Arm**.
3. Line up **Arm** to the fixture. Secure the **Arm** to the fixture with (4) **Bolts**.
4. Replace the **Arm Cover** and secure with **Screws** as shown in

Note: See Pole Drilling Pattern Detail (Fig. 8).

FIG. 1

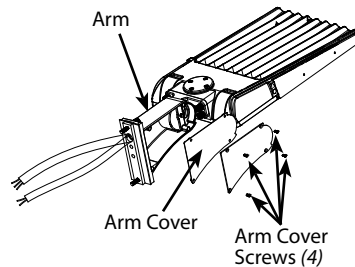


FIG. 2

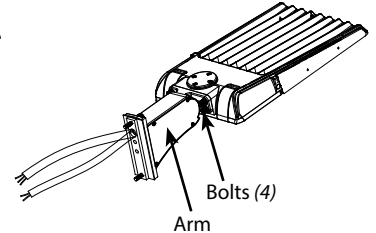
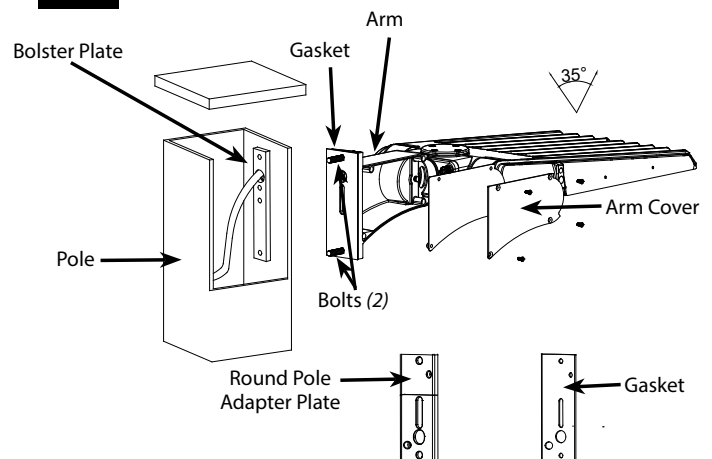


FIG. 3



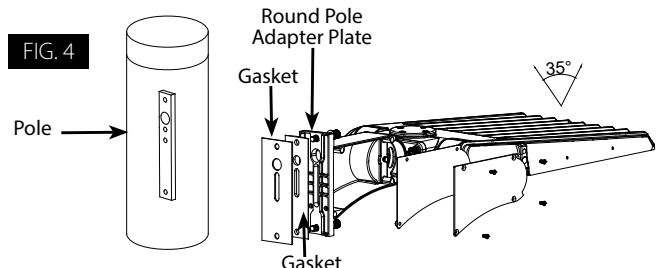
Square Pole Mount

1. Place the **Bolster Plate** inside the **Pole** as shown in Fig. 3.
2. Remove the **Round Pole Adaptor Plate**.
3. Fix **Arm** to **Square Pole** with **Bolts**.
4. Open the **Arm Cover** and pull the wires into the **Arm**.
5. Feed supply wires from the **Pole** into the **Arm**. Make appropriate wire connections per NEC (Fig. 7).
6. Replace **Arm Cover** and ensure **Gasket** is in place

Round Pole Mount

1. Place the **Bolster Plate** inside the **Pole** as shown in Fig. 3 and 4.
2. Fix **Arm** to **Round Pole** with **Bolts**.
3. Open the **Arm Cover** and pull the wires into the **Arm**.
4. Feed supply wires from the **Pole** to connect to the **Arm**. Make appropriate wire connections per NEC (Fig. 7).
5. Replace **Arm Cover** and ensure **Gasket** is in place.

FIG. 4



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SLIPFITTER MOUNT

WARNING: RISK OF SERIOUS INJURY OR DEATH!

DO NOT MOUNT THE SLIPFITTER TO A TENON OR BRACKET THAT IS MORE THAN 20 DEGREES FROM VERTICAL. MOUNTING ANY ANGLE OTHER THAN 0-20 DEGREES INCREASES THE RISK OF DISENGAGEMENT AND/OR FAILURE OF THE SLIPFITTER. INSTALL THE POLE ON A SECURE BASE OR INSTALL THE BRACKET TO A WALL FIRST. THEN PLACE LUMINAIRE ONTO THE POLE OR BRACKET. DO NOT LIFT ASSEMBLED LUMINAIRE OR POLE OR LUMINAIRE & BRACKET. LUMINAIRE OR POLE/BRACKET MAY DISENGAGE.

NOTICE: Adjustable angle is 90°.

1. Place the **Slipfitter** over the **Tenon** and secure the **Fixture** with **Set Screws** on the side of the **Slipfitter** as shown in Fig. 5.
2. Feed wires from **Fixture** through **Slipfitter** and supply wires from pole. Make the necessary connections in the **Slipfitter** and knot wires for strain relief.
3. To adjust the angle of the **Slipfitter**, loosen the **Locking Bolt** and swivel **Fixture** to desired angle. The graduation of the **Slipfitter** cover plate can be used as guidelines to adjust the angle (Fig. 6).
4. Tighten the **Locking Bolt** (Fig. 6).

FIG. 5

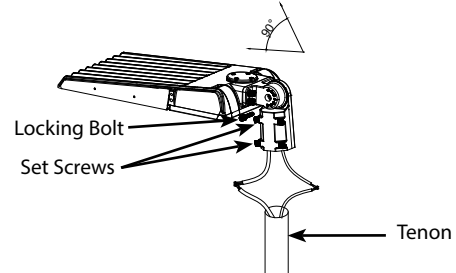
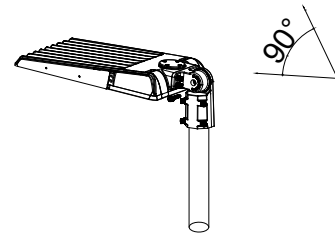


FIG. 6



0-10V DIMMABLE WIRING

Universal voltage driver permits operation at 120V through 277V, 50 or 60 Hz. Units ordered with /480 suffix operate at 480V, 50 or 60Hz. For 0-10 dimming follow the wiring directions as shown in Fig. 7.

1. Connect the black fixture lead to the LINE supply lead.
2. Connect the white fixture lead to the COMMON supply lead.
3. Connect the green wire from fixture to supply ground. Do NOT connect the GROUND of the dimming fixture to the output.
4. Connect the purple fixture lead to the DIM V+ lead.
5. Connect the pink fixture lead to the DIM V- lead.

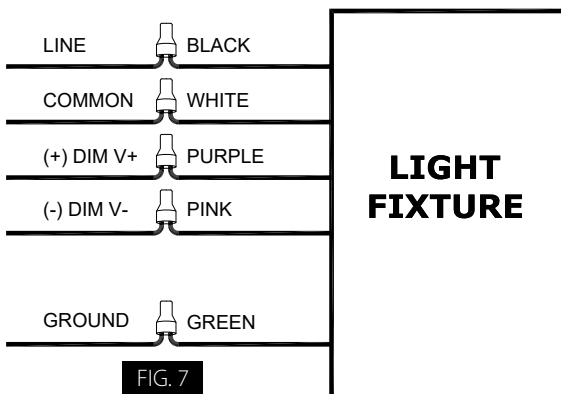
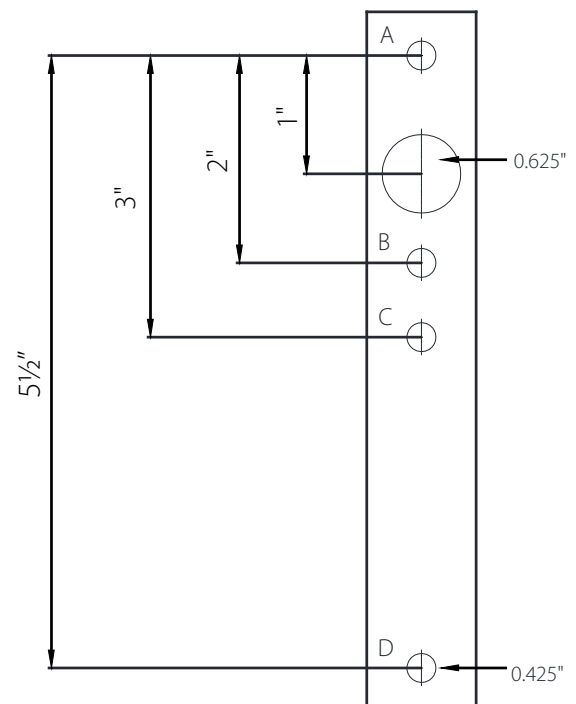


FIG. 7

POLE DRILLING PATTERN DETAIL

The fixture can accommodate 3 different hole patterns (Fig. 8). Hole **A** must be used then choose either hole **B**, **C** or **D** as needed. Template is not to scale. Use measurements shown below (Fig. 8).

FIG. 8



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FIELD ADJUSTMENT

Install Photocell (*provided*) or Shorting Cap (*provided*) as needed, see Fig. 11. Follow instructions below to change fixture **Color Temperature (CCT)**, **Power (Wattage)** and/or **Beam Angle** from the factory settings.

Note: Turn power off before changing fixture settings.

Factory Settings:

AL22 150/100/80W 4000K (CCT), 150W (Power) T3 (Beam Angle)

AL22 300/240/200W 4000K (CCT), 300W (Power) T3 (Beam Angle)

1. Unscrew **3/4" Plug** as shown in Fig. 9.
2. Adjust **Color Temperature (CCT)**, **Power (W)** and/or **Beam Angle** by sliding the respective switch to the desired setting as shown in Fig. 10.
3. Re-install **3/4" Plug** and tighten.

FIG. 11

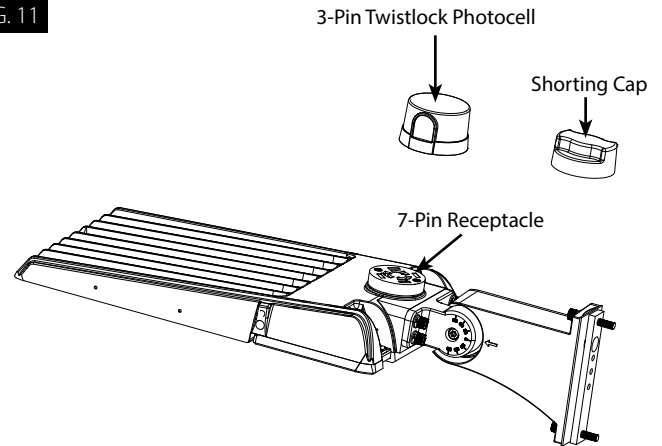


FIG. 9

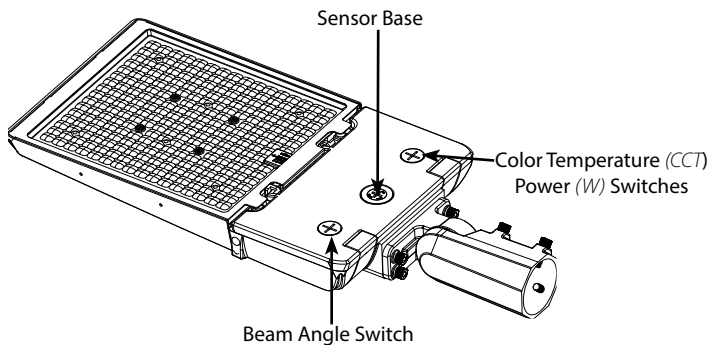
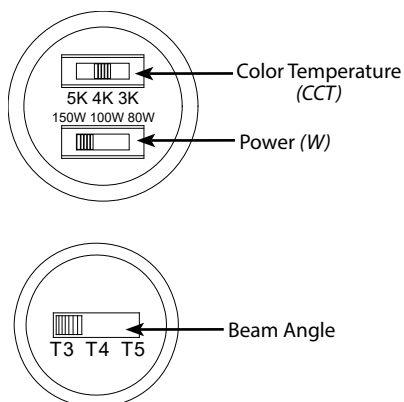


FIG. 10



FIXTURES USED WITH PIR/MVS SENSORS

Accessory ordered separately - Model # MVS50, PIR40 MVS50/LCB, PIR40/LCB. Optional remote MSR1 sold separately for custom settings.

Factory Settings:

- Brightness: 100%
- Sensitivity: 100%
- Hold Time: 20 Minutes
- Stand-by dimming level: 20%
- Daylight: Disabled
- Stand-by time: 1 Minute

TROUBLESHOOTING

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

CLEANING & MAINTENANCE

CAUTION: Do not open or remove Respirator Plug as shown in Fig. 9. Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

1. Clean Lens with non-abrasive glass cleaning solution.
2. Do not open the fixture to clean the LED. Do not touch the LED.

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.

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LIGHTCLOUD® BLUE

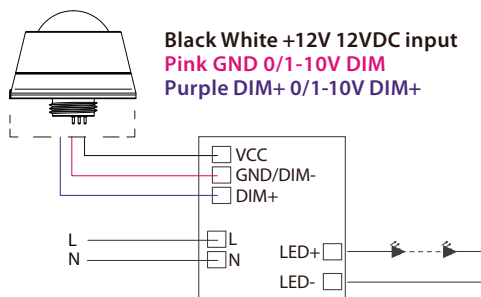
Lightcloud Blue is a Bluetooth mesh wireless lighting control system that allows you to control various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and large commercial applications using the Lightcloud Blue mobile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

Lightcloud Blue devices should be placed within the specified range to communicate within the Bluetooth Mesh network. Up to 60 feet between standard building materials.

SENSORS WIRING

The Lightcloud Blue High Bay Low Voltage Controller installs in compatible sensor ports using a 3-pogo pin connection.



LIGHTCLOUD® BLUE SENSORS

This is a 12V low voltage controller with integrated occupancy sensor. Screw the Sensor Head into the sensor port of a compatible fixture. Sensor will operate in Occupancy mode in their Uncommissioned State. Once paired to the Lightcloud Blue mobile app, the sensor will be disabled. Sensor Settings can be adjusted in the Lightcloud Blue mobile app. Once the sensor is enabled in the mobile app, the sensor will respond based on Commissioned State factory settings. For use with compatible fixtures without a sensor port, see BRACKET (RAAS) INSTALLATION.

LIGHTCLOUD® BLUE SENSORS (CONT'D)


Factory Settings: Uncommissioned State

- Sensor Status: Enabled
- Motion Sensitivity: High
- Brightness when triggered: 100%
- Hold time: 20 Minute
- Daylight harvesting: Disabled

Factory Settings: Commissioned State

- Sensor Status: Disabled.
- Motion Sensitivity: High
- Brightness when triggered: Last on status
- Hold time: 20 Minutes
- When vacant: Offww
- Daylight harvesting: Disabled

CONTROLLING LIGHTCLOUD® BLUE DEVICE

1. Confirm your device is powered on.
2. Download the Lightcloud Blue app from the Apple® App store or Google Play™ store.
3. Launch the App and create an account or login.
4. Tap the "add device" icon in the app to start connecting devices. 
5. Select the fixture in the app and move it to an Area with other Lightcloud Blue lights.
6. You're all set!



Learn more about the Lightcloud Blue system and app features.

CONFIGURATION

To configure the Lightcloud Blue please login to the Lightcloud Blue app for details. For additional startup information, visit www.lightcloud.com/item/lcb-getting-started/

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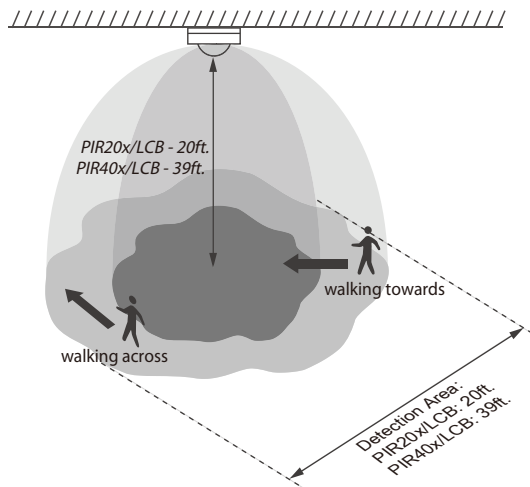
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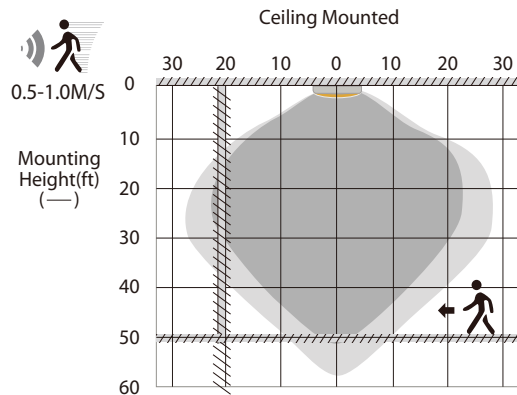
SENSOR COVERAGE

High Bay Low Voltage PIR Controller:

Highest ceiling mounted height



High Bay Low Voltage MVS Controller:



Highest mounting height is:

MVS20x/LCB: 20ft, MVS50x/LCB: 49ft

This gure indicates the maximum distance at the highest mounting height with 100% sensitivity.

- Well Detected Area
- Possibly Detected Area

RESTORE FACTORY SETTINGS

To restore your Lightcloud Blue Low Voltage Controller to factory settings, you can reset it using the following methods:

Method 1: Delete from App

If the controller was previously paired, open the mobile app and access the device settings for the paired device. Be sure that the device is online and select 'Delete from Site'. The light will flash on/off 3x, then reset to 100% brightness.

Method 2: Manual

Remove the controller and reattach 5x in a row. The light will flash on/off 3x then reset to 100% brightness.

Method 3: Rapid Reset Tool

The rapid reset process must be done by professional electricians qualified by RAB. Reach out to your RAB sales manager to request a Rapid Reset Tool. The tool simply needs to be placed directly on the small Lightcloud logo on fixture for 2 seconds. The fixture will flash 3 times, then reset to 100% brightness at default CCT.

