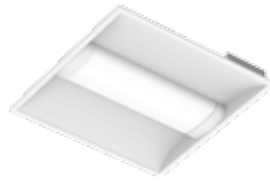# INSTRUCTIONS

SWISH® & SWISH® AIR HANDLING FIELD-ADJUSTABLE INSTALLATION

RAB®

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

SWISH1X4   SWISH2X2   SWISH2X4

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.
CAUTION: Min 90°C Supply Conductors. Suitable for damp locations. Type IC, inherently protected.

RECESSED CEILING MOUNTING

The fixture is suitable only for indoor recessed ceiling application. Above ceiling access required.

To mount in an insulated or non-insulated ceiling - 9/16" or 15/16" exposed Flat Tee-Grid ceiling, follow the steps below.

1. Firmly bend the pre-installed **Grid Clips** *(up and out as shown in Fig. 1)*

2. Rotate and slide the **Fixture** as required to fit through the **Tee-Grid Bar** and place it as indicated by the directional arrow as shown in Fig. 2. Secure the **Fixture** to the **Tee-Grid Bar**.

3. Make sure that the orientation of the **Splice Box** and **Access Plate** faces an accessible tile to make electrical splices.

4. Some Jurisdictions require Support Wires. Support Wires may be installed to support the Fixture to the building structure through the Grid Clip Hole as shown in Fig. 3 *(support wires provided by others)*.

5. Loosen **Access Plate Screw** and remove the **Access Plate**. Knock out appropriate **Conduit Knockouts** on the **Access Plate** to route input conduit. Use appropriate conduit connectors as required by code *(Fig. 3)*.

6. Connect wires as shown in wiring diagram *(Fig. 5)*. Push all wires back into the **Splice Box**. Use appropriate UL approved wire connectors as required by code to complete wiring. Be careful not to pinch wires. **WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.**

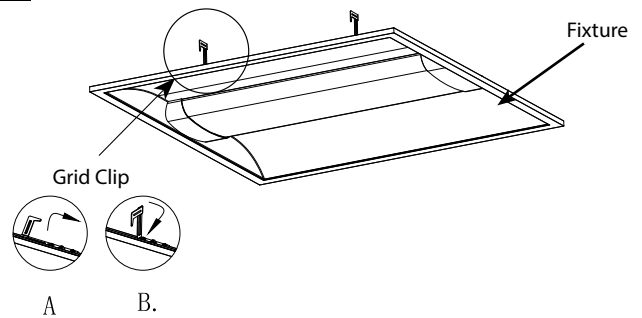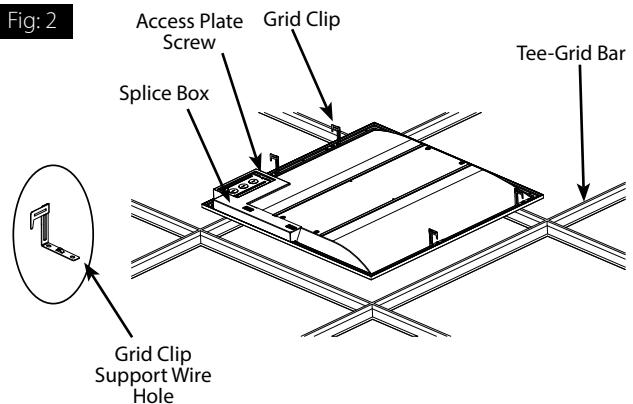7. Replace **Access Plate** and tighten **Access Plate Screw**.
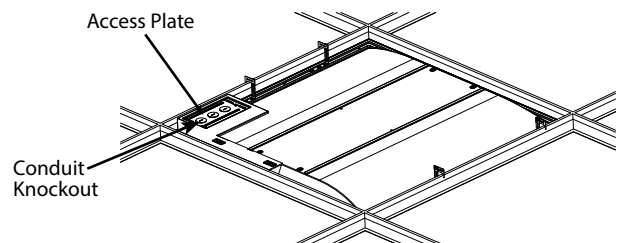
Fig: 1

Fixture

Grid Clip

A.   B.

Fig: 2

Access Plate Screw
Grid Clip
Splice Box
Tee-Grid Bar
Grid Clip Support Wire Hole

Fig: 3

Access Plate

Conduit Knockout

INSTRUCTIONS

SWISH® & SWISH® AIR HANDLING FIELD-ADJUSTABLE INSTALLATION

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FIELD ADJUSTMENT

Follow instructions below to change Fixture **Color Temperature** *(CCT)* and/or **Power** *(W)* from factory settings listed below.

Fig: 4

Color Temperature *(CCT)* Selection:
This product is equipped with 3500K, 4000K and 5000K *(CCT)* **Color Temperature** selection. For maximum light output use the 4000K **Color Temperature.**

Power *(Wattage)* Selection:
This product is equipped with power output selection.
SWISH 1X4   35/26/18W
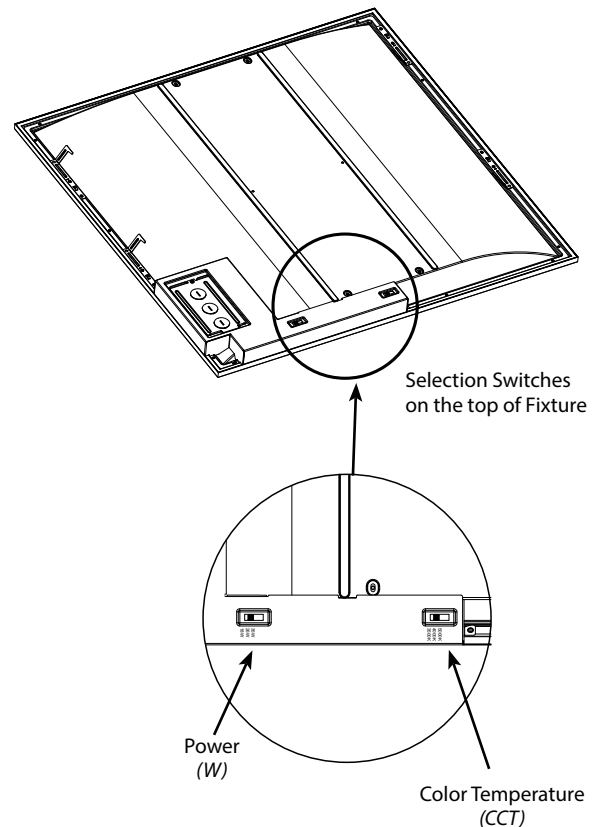SWISH 2X2   35/26/18W
SWISH 2X4   44/35/26W

Factory Settings:
1X4 - 35W / 4000K

2X2 - 35W / 4000K

2X4 - 44W / 4000K

1. Locate the **Selection Switches** on the top of **Fixture** as shown in Fig. 4.

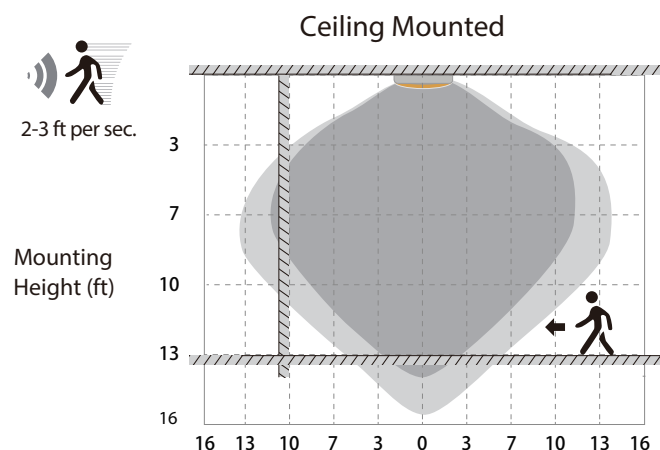2. Select **Color Temperature** *(CCT)* and/or **Power** *(W)* by sliding the respective Switch to the desired value.

Selection Switches on the top of Fixture

Power *(W)*

Color Temperature *(CCT)*

MVS MODELS *(External)*

(optional remote sold separately for custom settings, CAT# MSR1).

Factory Settings:

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

DETECTION COVERAGE

Ceiling Mounted

2-3 ft per sec.

Mounting Height (ft)

3

7

10

13

16

16 13 10   7   3   0   3   7   10 13 16

Highest mounting height is 13ft

This figure indicatges the maximum distance at the highest mounting height with 100% sensitivity

Well Detected Area   Possibly Detected Area

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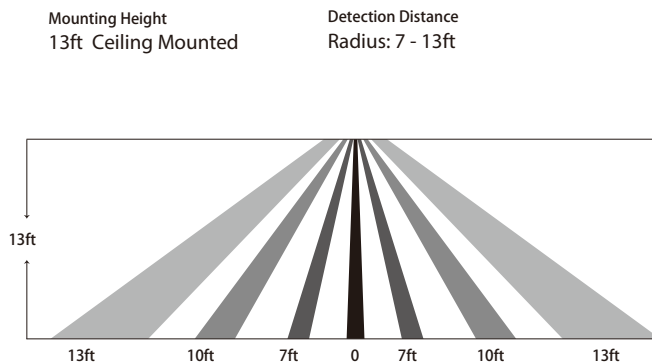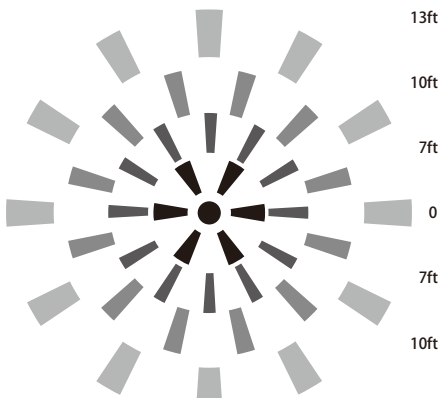
PIR MODELS *(External)*

(optional remote sold separately for custom settings, CAT# MSR1).

Factory Settings:

- Brightness: 100%
- Hold Time: 20 Minutes
- Daylight: Disabled

- Sensitivity: 100%
- Stand-by dimming level: 20%
- Stand-by time: 1 Minute

PIR DETECTION COVERAGE

13ft
10ft
7ft
0
7ft
10ft

Mounting Height
13ft Ceiling Mounted

Detection Distance
Radius: 7 - 13ft

13ft

13ft   10ft   7ft   0   7ft   10ft   13ft

SAFETY INSTRUCTIONS

WARNING: Risk of fire or electric shock. Suitable for Damp locations.

WARNING: Suitable for 9/16" or 15/16" Flat Tee Grid in both Insulated Ceilings and Non-Insulated Ceilings. Access above ceiling required.

WARNING: Do not handle energized fixture when hands are wet, when standing on wet or damp surfaces, or in water.

WARNING: Vapor barrier must be suitable for 90° C.

WARNING: Fixture to be independently supported to building structure.

CLEANING

CAUTION: Be sure fixture temperature is cool enough to touch. Do not clean or maintain while fixture is energized.

1. Clean lens & fixture with non-abrasive cleaning solution.
2. Do not open fixture to clean the LEDs. Do not touch the LEDs.

TROUBLESHOOTING

1. Check the line voltage at fixture. Refer to wiring directions.
2. Is the fixture grounded properly?
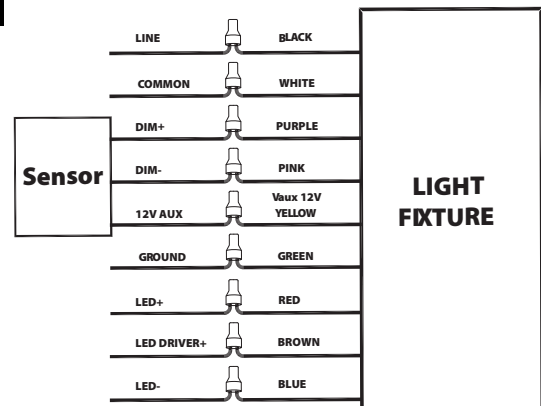3. Blinking light of this thermally protected luminare may indicate overheating.

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.

0-10V DIMMABLE WIRING

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

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 GROUND wire from fixture to supply ground.
4. Connect the purple fixture lead to the (V+) DIM lead.
5. Connect the pink fixture lead to the (V-) DIM lead.
6. If an external emergency power supply is needed, please connect it according to the wiring diagram in Fig. 5. If no external emergency power supply is required, please leave the red, blue, and brown wires of the light fixture unchanged.

Fig: 5

Sensor		LIGHT FIXTURE
LINE	BLACK	
COMMON	WHITE	
DIM+	PURPLE	
DIM-	PINK	
12V AUX	Vaux 12V YELLOW	
GROUND	GREEN	
LED+	RED	
LED DRIVER+	BROWN	
LED-	BLUE	

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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 Bluetooh Mesh network. Up to 60 feet between standard building materials.

LED Indicators:

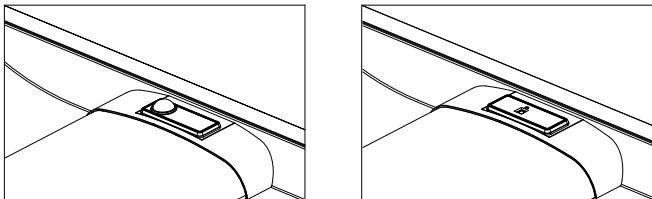**Blinking Blue** = Looking for a network / unprovisioned

Fig: 1
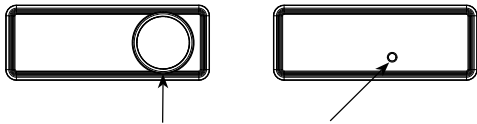
STATUS INDICATOR
1. Blinking BLUE when Looking for a network or unprovisioned.
2. LED Indicator is off when connected to your Lightcloud Blue network.
3. When the sensor is triggered, the blue light flashes once and then goes out.

ASSEMBLY

The sensor is installed on this fixture and should not be removed.

WIRING

Lightcloud Blue Low Voltage Controller is compatible with the 0-10V driver with 12V Aux supply, it is installed on the plastic end cover of the fixture . The wiring of the sensor is completed in the factory.
If an external emergency power supply is needed, please connect it according to the wiring diagram in Fig. 2.
If no external emergency power supply is required, please leave the red, blue, and brown wires of the light fixture unchanged.

Fig: 2
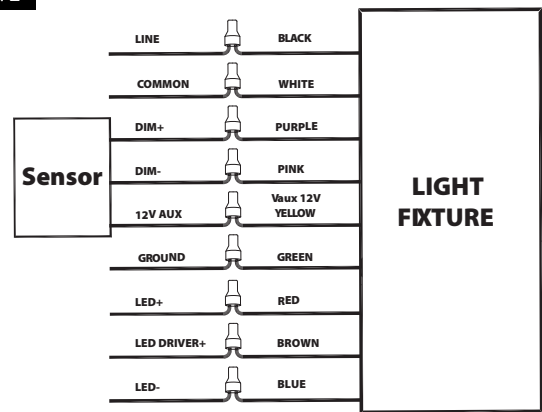
LIGHTCLOUD® BLUE SENSORS

Sensors are integrated at the factory, the factory settings are in Uncommissioned state. Once paired to the Lightcloud Blue mobile app, the sensor will be disabled. Sensor Settings can be adjusted after being moved into an Area 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.

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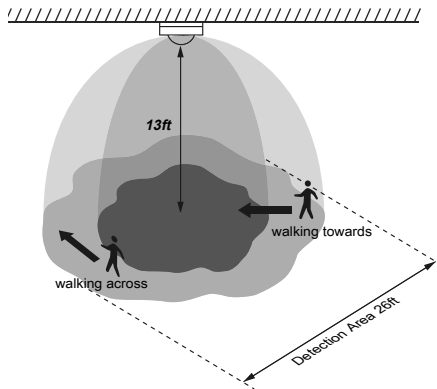- Daylight harvesting: Disabled

INSTRUCTIONS
SWISH® & SWISH® AIR HANDLING FIELD-ADJUSTABLE INSTALLATION
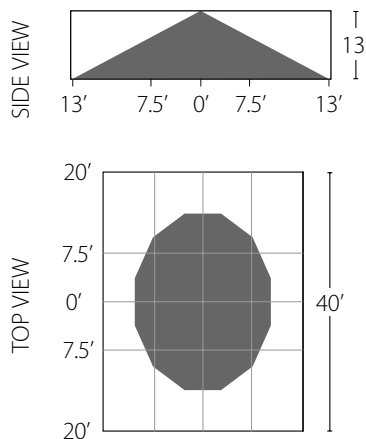
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SENSOR COVERAGE

PIR/LCB:

13ft

walking towards

walking across

Detection Area 26ft

MVS/LCB:

SIDE VIEW

13'

13'   7.5'   0'   7.5'   13'

TOP VIEW

20'

7.5'

0'   40'

7.5'

20'

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!

Check out the Lightcloud Blue Mobile App User Guide for more information on how to maximize your system

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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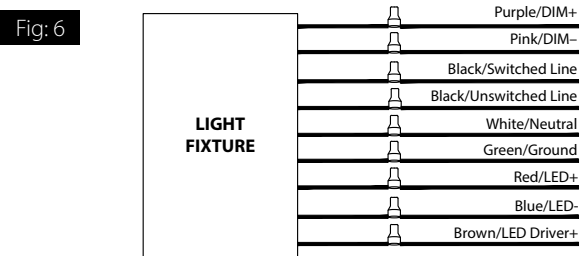
BATTERY BACKUP MODELS

WIRING

NOTE: Make sure that the necessary branch circuit wiring is available. An UNSWITCHED AC source of power is required. The emergency driver must be fed from the same branch circuit as the LED driver.

CAUTION: Do not use any supply voltage other than 120-277V 50/60 HZ *(Fig. 6)*.

Battery Test Button is provided with adhesive backing. Align the Test Button to edge of Fixture Frame closest to the lens for easy accessibility as shown in Fig. 7.

1. Connect **UNSWITCHED HOT** fixture lead to **HOT AC** supply line.

2. If using an **UNSWITCHED** circuit, connect **UNSWITCHED** and **SWITCHED** lines together.

3. If using a **SWITCHED** circuit, connect **SWITCHED HOT** AC fixture lead to the external.

4. For 0-10V Dimming connect **DIM** (+) purple and **DIM** (-) pink leads to 0-10V dimming connection.

5. For emergency wiring, connect the red, blue, and brown emergency wires from the emergency driver to the fixture driver . The emergency wires are pre-connected at the factory.

6. All unused leads must be capped and insulated.

7. When power is on, the fixture should be on and the Charging Indicator Light should illuminate to indicate the battery is charging or is fully charged.

8. Once the BATTERY has charged for at least one hour, a short duration test may be performed by pressing the **Test Button** *(Fig. 7)*, The charging indicator light is off.

9. After the battery has charged for 24 hours, a long duration test can be performed by shutting power to the fixture.

INDICATOR LIGHT STATUS DESCRIPTION

1. The indicator light illuminates, indicating that the battery is charging or is fully charged.

2. The indicator light is off, indicating that it has entered emergency mode.

Fig: 6

LIGHT FIXTURE

Purple/DIM+
Pink/DIM–
Black/Switched Line
Black/Unswitched Line
White/Neutral
Green/Ground
Red/LED+
Blue/LED-
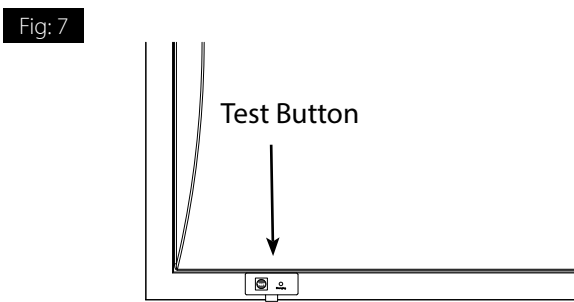Brown/LED Driver+

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 standby power automatically switches to emergency power *(internal battery)*, The brightness of the lamp has decreased and the lamp has entered emergency mode.The emergency driver supplies standby power for a minimum of 90 minutes.

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. Is the fixture grounded properly?

2. If the fixture does not illuminate after pressing the **Test Button**, check if battery is connected properly.

Fig: 7

Test Button

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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Free Lighting Layouts
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SWISH-IN-0925
P-101985

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