

INSTRUCTIONS

PARK34™ STANDARD & 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



Standard PARK34™



Field-Adjustable PARK34™

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.

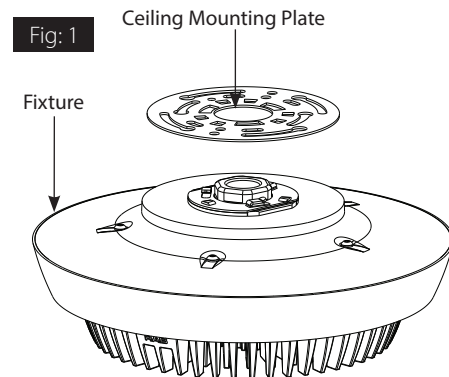
NOTE: FIELD-ADJUSTMENT SETTINGS MUST BE MADE PRIOR TO INSTALLATION, SEE FIG. 1 AND 2.

STANDARD (NON-FIELD-ADJUSTABLE) PARK34

CEILING MOUNT

The Fixture is suitable for outdoor applications in wet locations.

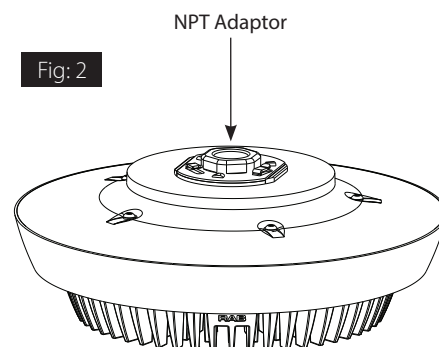
1. Mount **Ceiling Mounting Plate** to junction box (*not supplied*), see **Fig. 3** for **Mounting Pattern**. Use the appropriate mounting hardware for the mounting surface. May alternately be mounted to recessed junction boxes.
2. Pull supply wires from junction box (*not supplied*). Use the appropriate wire connectors as required by code to make electrical splices to fixture leads.
3. Once connections are made push all wires back into junction box (*not supplied*). Be careful not to pinch wires.
WARNING: To prevent wiring damage or abrasion, do not expose wiring to edges or sharp objects.
4. Push **Fixture** into **Ceiling Mounting Plate** and rotate clockwise to lock in place, **Fixture** will snap into position. Once in position the **Fixture** should be tight and not easily rotated counter-clockwise.



PENDANT MOUNT

Fixture can be mounted to a 1/2" or 3/4" NPT Pendant. 3/4" to 1/2" **NPT Adaptor** is included.

1. Feed supply wires through pendant (*supplied by others*). Wrap Teflon® Tape or other thread sealer to the pendant threads to prevent moisture entry.
2. Remove **Ceiling Mounting Plate**.
3. Make wire connections using supplied wire nuts and feed into the fixture.
4. Thread the **Housing** onto Pendant. For 3/4" Pendant remove **NPT Adaptor** (*Fig. 2*).



INSTRUCTIONS

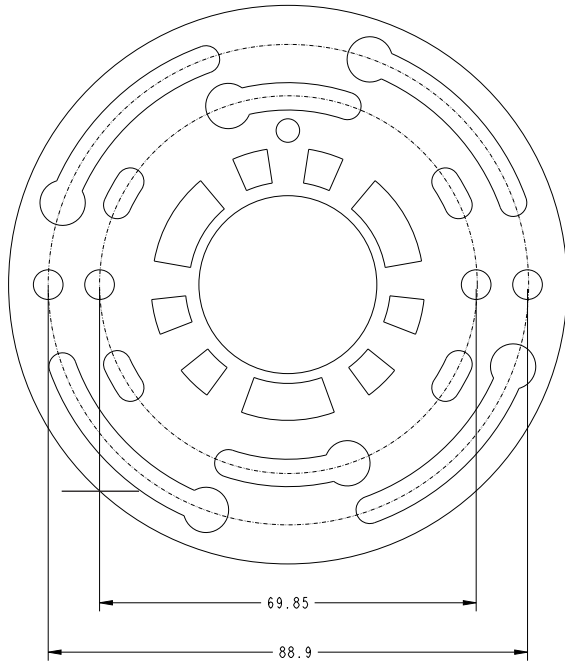
PARK34™ STANDARD & FIELD-ADJUSTABLE INSTALLATION



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MOUNTING PATTERN

Fig: 3



PASSIVE INFRARED SENSOR / BI-LEVEL

For units ordered with /PIR/BL suffix the default settings are:

1. When motion is detected the fixture will operate at 100% light output.
2. If no motion is detected after 20 minutes the fixture will dim to 30% light output.
3. These settings are not adjustable.

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.

ON-OFF WIRING

PARK34/120 series operates at 120V, 50 or 60Hz **only**.

PARK34/277 series operates at 277V, 50 or 60Hz **only**.

Follow the wiring directions as shown in Fig. 4.

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.

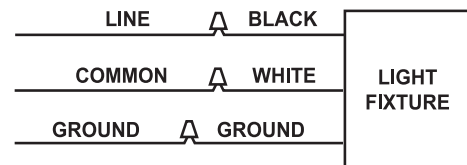


Fig: 4

CLEANING & MAINTENANCE

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

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

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Be sure the fixture is grounded properly.
3. Is the photocell, if used, functioning properly?

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FIELD-ADJUSTABLE PARK34

FIELD ADJUSTMENT

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

Factory Settings: PARK34-40 40W / 4000K
PARK34-70 70W / 4000K

1. Pull open **Field-Adjustable Switch Cover** located on top of housing as shown in Fig. 1.
2. Locate Field-Adjustable selector switches. Select **Color Temperature (CCT)** and/or **Power (W)** function by sliding the respective switch to the desired value (Fig. 2).
3. Replace **Field-Adjustable Switch Cover**.

Fig: 1

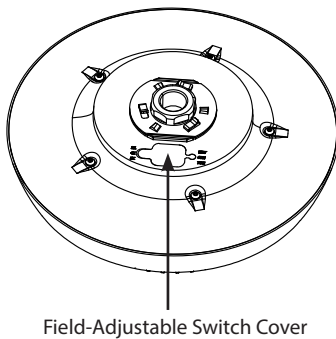
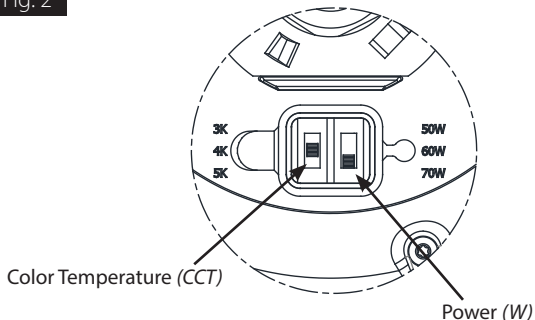


Fig: 2

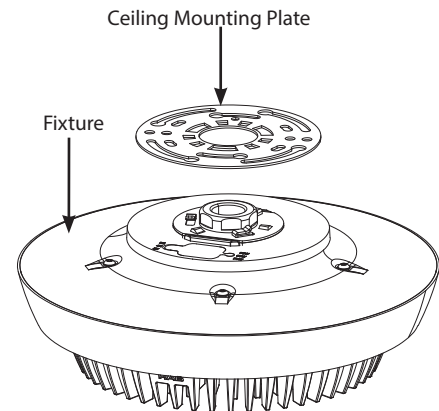


CEILING MOUNT

The Fixture is suitable for outdoor applications in wet locations.

1. Install **Ceiling Mounting Plate** to junction box (*by others*) as shown in Fig. 3. See Fig. 5 for **Mounting Pattern**. Use the appropriate mounting hardware for the mounting surface. Fixture may alternately be mounted to a recessed junction box.
2. Pull supply wires from junction box and use the appropriate wire connectors as required by code to make electrical splices to fixture leads. See wiring diagram, Fig. 7.
3. Once connections are made push all wires back into junction box. **Be careful not to pinch wires. WARNING: To prevent wiring damage or abrasion, do not expose wires to edges or sharp objects.**
4. Push **Fixture** into **Ceiling Mounting Plate** and rotate clockwise to lock in place, **Fixture** will snap into position. Once in position the **Fixture** should be tight and not easily rotated counter-clockwise.

Fig: 3



INSTRUCTIONS

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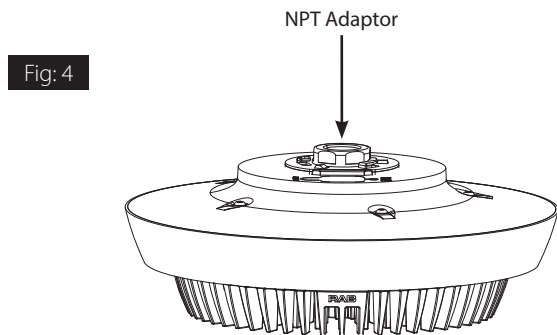


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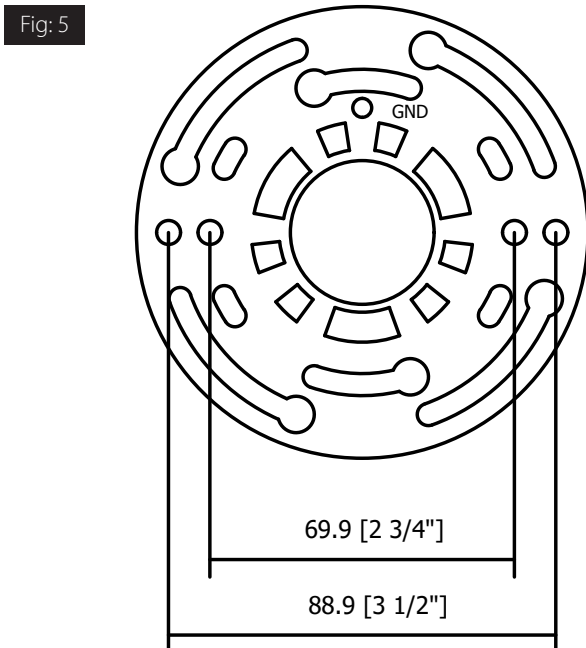
PENDANT MOUNT

Fixture can be mounted to a 1/2" or 3/4" **NPT Pendant** (*by others*) 3/4" to 1/2" **NPT Adaptor** is included (Fig. 4).

1. Feed supply wires through Pendant (*by others*). Wrap Teflon® tape or other thread sealer to the pendant threads to prevent moisture entry.
2. Make wire connections using supplied wire nuts and feed into the fixture. Use the appropriate wire connectors as required by code to make electrical splices to fixture leads. See wiring diagram, Fig. 7.
3. Thread the **Housing** onto Pendant. For 3/4" Pendant remove **NPT Adaptor** (Fig. 4).



MOUNTING PATTERN

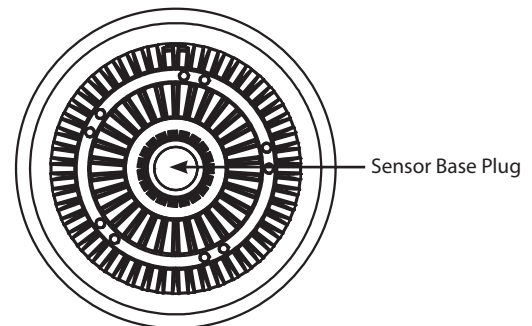


MVS/PIR SENSOR INSTALLATION

To install optional **MVS** or **PIR Sensor** follow directions below.

1. Ensure power is OFF to the fixture.
1. Remove **Sensor Base Plug** located on bottom center of **Housing** as shown in Fig. 6.
2. Insert **MVS** or **PIR Sensor** into the **Sensor Base Plug** and turn to secure.
3. Use optional remote Model# MSR1 (*ordered separately*) for user programming.

Fig: 6



MVS MODELS (EXTERNAL)

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

Factory Settings:

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

PIR MODELS (EXTERNAL)

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

Factory Settings:

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

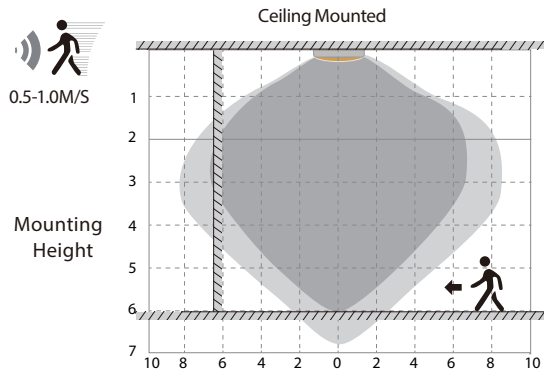
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DETECTION COVERAGE (MVS20 / PIR20)



Highest mounting height is 6m

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

Well Detected Area Possibly Detected Area

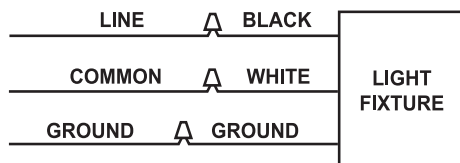
ON-OFF WIRING

PARK34 operates at 120V OR 277V, 50 or 60Hz ONLY.

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 **GROUND** wire from fixture to supply ground.

Fig: 7



CLEANING & MAINTENANCE

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

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

TROUBLESHOOTING

1. Check that the line voltage at the fixture is correct. Refer to wiring directions.
2. Be sure the fixture is grounded properly.
3. Is the photocell, if used, functioning properly?

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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BATTERY BACKUP MODELS

BATTERY BACKUP MODEL INSTALLATION

NOTE: FIELD-ADJUSTMENT SETTINGS MUST BE MADE PRIOR TO INSTALLATION, SEE FIG. 1 AND 2.

1. Install **Mounting Plate** to junction box (*by others*) see Fig. 8. Use the appropriate mounting hardware for the mounting surface. Fixture may alternately be mounted to a recessed junction box.
2. Hang the fixture using the **Tether Cable** to **Mounting Plate**, see Fig. 8.
3. Pull supply wires from junction box and use the appropriate wire connectors as required by code to make electrical splices to fixture leads.
4. See **Wiring Diagram** as shown in Fig. 10 and follow wiring instructions.
5. Raise the fixture the **Mounting Plate** and rotate. Tighten (3) **Locking Screws** to secure (Fig. 9).

WARNING: To prevent wiring damage or abrasion , do not expose wiring edges or sharp objects.

Fig: 8

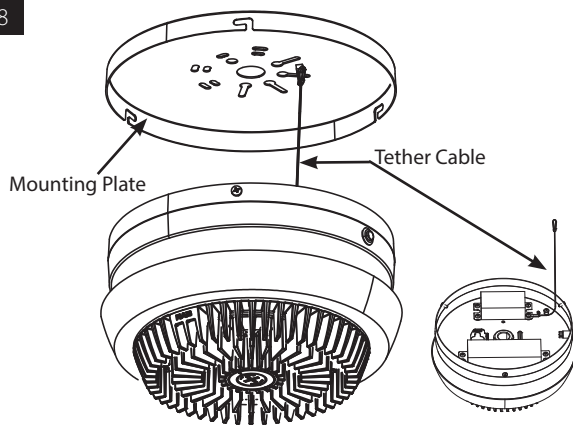
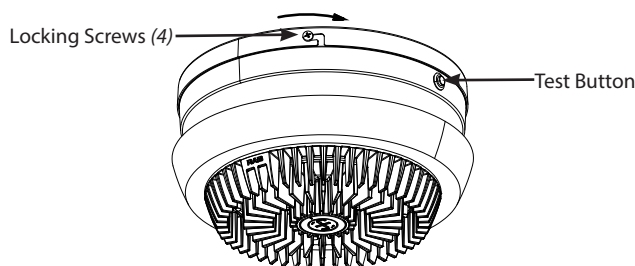


Fig: 9



WIRING

CAUTION: FOR BATTERY BACKUP FIXTURE. Voltage can be present in **BATTERY**. To prevent high voltage from being present on output leads, Inverter connector must be open. Do not join **BATTERY** connector until installation is complete.

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. Reference Fig. 10 for wiring diagram.

CAUTION: Do not use any supply voltage other than 120-277V.

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** lead to the switch.
4. For 0-10V dimming, connect **DIM (+)** purple and **DIM (-)** pink leads to 0-10V dimming connection.
5. All unused leads must be capped and insulated.
6. After installation is complete connect the battery.
7. When power is applied the fixture should be on, the fixture and the **CHARGING INDICATOR LIGHT** should illuminate to indicate the battery is charging.
8. 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. 9.
9. After the battery has charged for 24 hours, a long duration test can be performed by disconnecting power to the fixture.
10. When operating in Emergency mode, if using an optional sensor, the sensor will not operate.

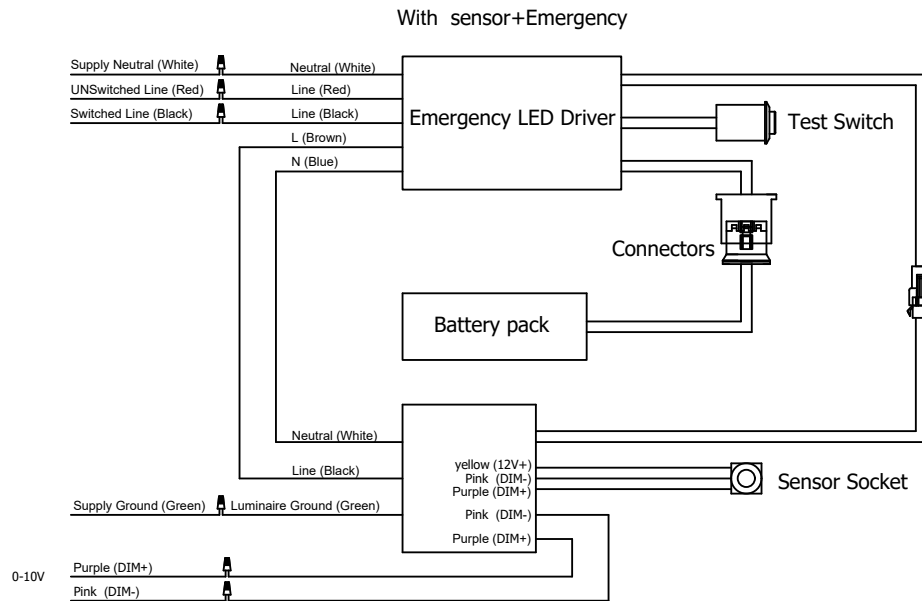
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Fig: 10



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*) operating at reduced illumination (*occupancy sensor will not function*).
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.



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PARK34 - IN - 0724
P-100071 & P-101118

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Free Lighting Layouts
Answered online or by request

RAB WARRANTY: RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.