

INSTRUCTIONS

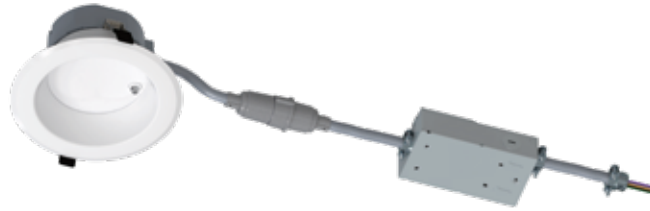
CR Field-Adjustable Downlight With Emergency Battery Installation



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. ****

CRx/E



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.

WARNINGS:

- Risk of electrical shock. Disconnect power at fuse or circuit breaker before installing or servicing.
- To prevent early lamp failure, lamp should only be installed in operating environments ranging between -20°C and 40°C (-4°F and 104°F).
- No user serviceable parts inside. To avoid electrical shock do not disassemble product.
- Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and minimum dimensions shown in these instructions and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.
- The retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction. Product must be installed by a qualified electrician in accordance with the applicable and appropriate electrical codes. The installation guide does not supersede local national regulations for electrical installations.
- This device is not intended for use with emergency exits.
- Caution - risk of fire. Consult a qualified electrician to ensure correct branch circuit conductor.
- Minimum 90°C supply conductors
- Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Continued on next page.

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AC power must be off before proceeding with assembly or installation of emergency driver.

CAUTION: DO NOT USE OUTDOORS.

CAUTION: DO NOT MOUNT NEAR GAS OR ELECTRONIC HEATERS.

CAUTION: EQUIPMENT SHOULD BE MOUNTED IN LOCATIONS AND AT HEIGHTS WHERE IT WILL NOT BE SUBJECTED TO TAMPERING BY UNAUTHORIZED PERSONNEL.

CAUTION: THE USE OF ACCESSORY EQUIPMENT NOT RECOMMENDED BY THE MANUFACTURER MAY CAUSE AN UNSAFE CONDITION.

CAUTION: DO NOT USE THIS EQUIPMENT FOR OTHER THAN ITS INTENDED USE.

CAUTION: Use with grounded, UL Listed, damp location rated fixtures and case should be grounded.

CAUTION: The equipment is intended for ordinary locations and for permanent installation into one or more listed emergency luminaires.

IMPORTANT: The products are produced with built-in batteries, which could be stocked for one year at most without being used.

If clients keep them for more than one year, the batteries may be damaged. This is not covered in the warranty.

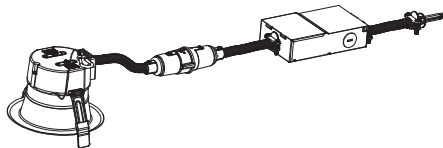
NOTE: 1. Please install this product properly by "licensed electrician".

2. Damp or wet location installation is OK.

3. Keep away from flammable materials in an area with good heat dissipation.

4. Please charge the battery consistently for >24 hours for the first time usage to activate the whole battery cells of discharging/charging duration.

WHAT'S IN THE BOX



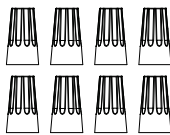
Downlight + Emergency Driver (1)



Template (1)

THIS LUMINAIRE HAS BEEN MODIFIED TO OPERATE LED LAMPS.
DO NOT ATTEMPT TO INSTALL OR OPERATE INCANDESCENT LAMPS IN THIS LUMINAIRE.
REPLACE ONLY WITH RAB Lighting Inc.
RABLIGHTING.COM 888 722-1000
MODEL#

Lumi Sticker (1)



Nuts (8)

Shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including relamping.

Wire Nuts (7) for 4 inch
Wire Nuts (8) for 6 & 8 & 10 inch

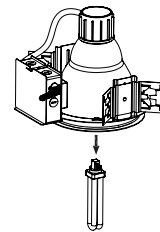
TOOLS NEEDED

This LED Recessed Kit requires very few tools for installation. A screwdriver and a pair of wirecutters will help to install the downlight to a JBox or housing.

INSTALLATION WITH EXISTING FRAME

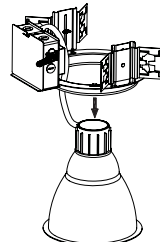
1. Shut power OFF to the fixture.
2. Remove CFL, Incandescent or HID lamp. (Fig.1)

Fig: 1



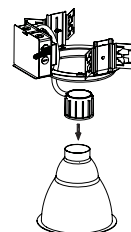
3. Remove reflector from rough-in (mounting frame). (Fig.2)

Fig: 2



4. Remove socket assembly from reflector. (Fig.3)

Fig: 3



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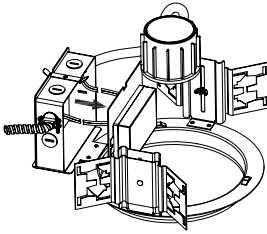
RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

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INSTALLATION WITH EXISTING FRAME (cont'd)

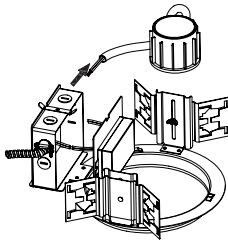
5. Remove J-Box metal plate with existing lamp ballast. Do not dispose. Disconnect all wires from the ballast. (Fig.4)

Fig: 4



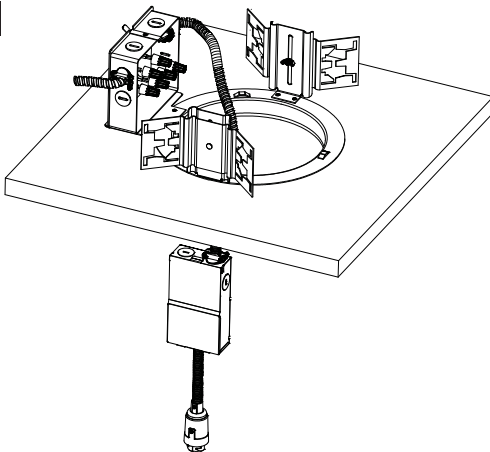
6. Remove the existing lamp metal conduit (MC) cable from the J-Box. (Fig.5)

Fig: 5

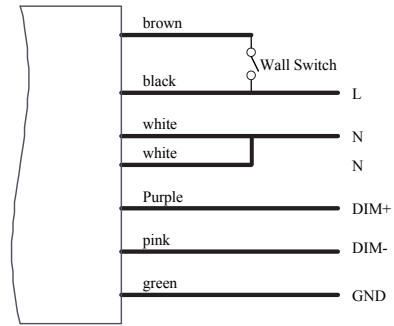


7. Connect the MC cable from the emergency battery backup J-Box to the fixture J-Box. Connect wires according to the wiring diagram. Please connect both 2 white wires coming out from EMBB with neutral wire. Please Note: 4 inch fixture do not contain the Yellow 12V+ wire. (Fig.6)

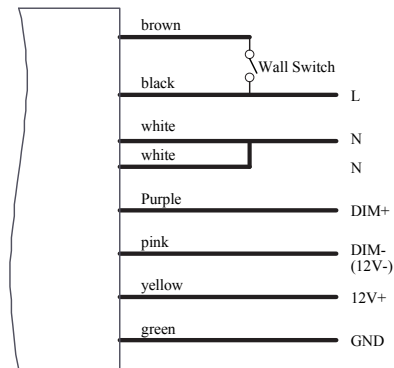
Fig: 6



INSTALLATION WITH EXISTING FRAME (cont'd)



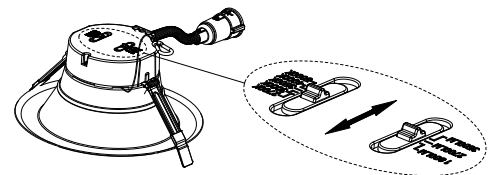
Wiring diagram for 4"



Wiring diagram for 6"/8"/10"

8. Select desired lumen output and color temperature using switches on the top of the downlight. (Fig.7)

Fig: 7



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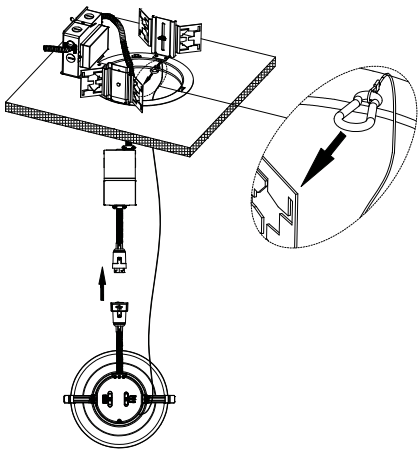
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INSTALLATION WITH EXISTING FRAME *(cont'd)*

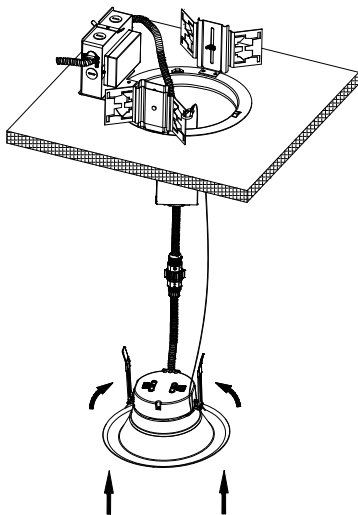
- 9 Attach the safety cable to the fixture frame. Plug the fixture into the Emergency Battery Backup using the quick connect MC cable.(Fig.8)

Fig: 8



10. Push the Emergency Battery J-Box through the hole and place on the fixture frame. Squeeze the two spring clips so they are in an upright position. (Fig.9)

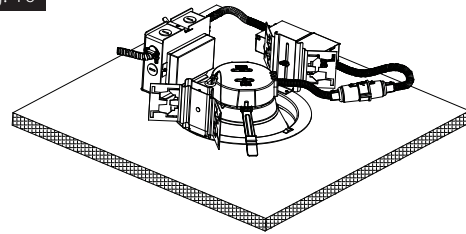
Fig: 9



INSTALLATION WITH EXISTING FRAME *(cont'd)*

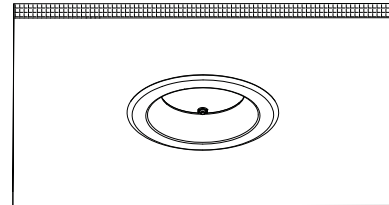
11. Insert the fixture into the frame. (Fig.10)

Fig: 10



12. Push the fixture until the flange sits flush against the ceiling. (Fig.11)

Fig: 11



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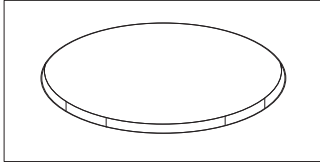
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INSTALLATION WITHOUT EXISTING FRAME

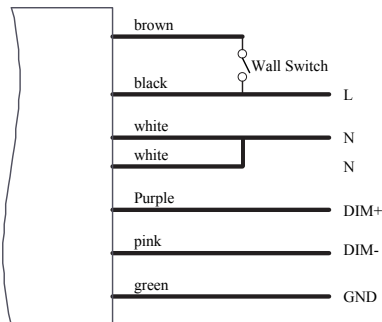
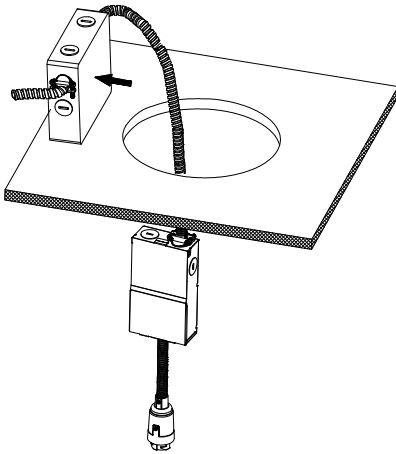
1. Use the template included in the box to cut a hole in the ceiling. (Fig.12)

Fig: 12



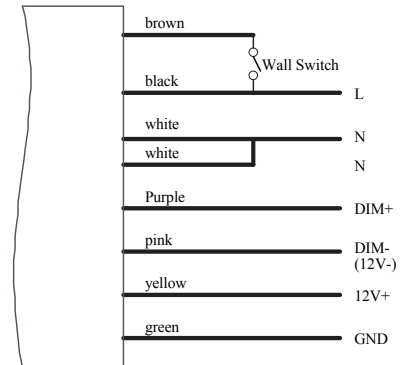
2. Connect the MC cable from the emergency battery backup J-Box to the fixture J-Box. Connect wires according to the wiring diagram. Please connect both 2 white wires coming out from EMBB with neutral wire. Please Note: 4 inch fixture do not contain the Yellow 12V+ wire. (Fig.13)

Fig: 13



Wiring diagram for 4"

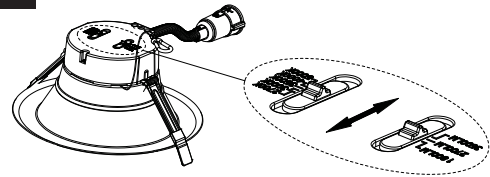
INSTALLATION WITHOUT EXISTING FRAME (cont'd)



Wiring diagram for 6"/8"/10"

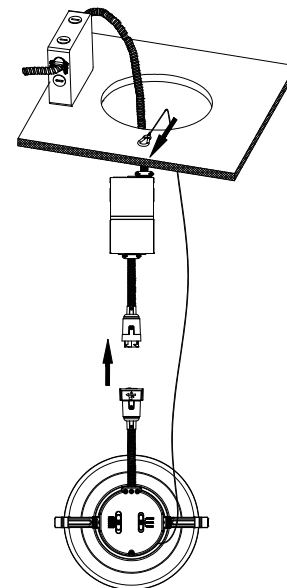
3. Select desired lumen output and color temperature using switches on the top of the downlight. (Fig.14)

Fig: 14



4. Attach the safety cable to the fixture frame. Plug the fixture into the Emergency Battery Backup using the quick connect MC cable. (Fig.15)

Fig: 15



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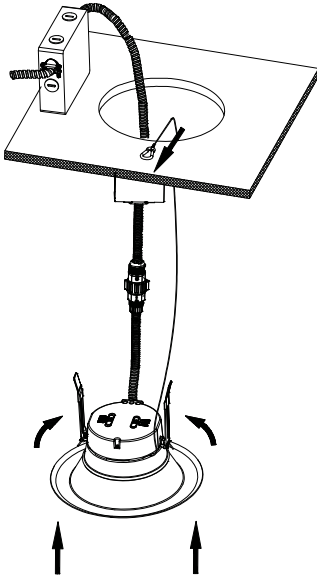
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INSTALLATION WITHOUT EXISTING FRAME *(cont'd)*

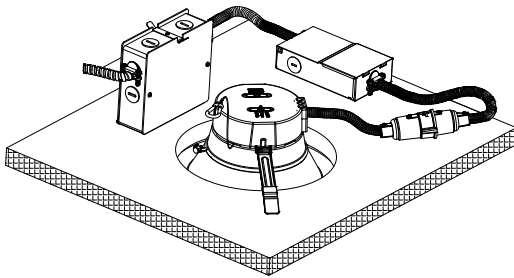
5. Push the Emergency Battery J-Box through the hole and place on the fixture frame. Squeeze the two spring clips so they are in an upright position. *(Fig.16)*

Fig: 16



6. Insert the fixture into the frame. *(Fig.17)*

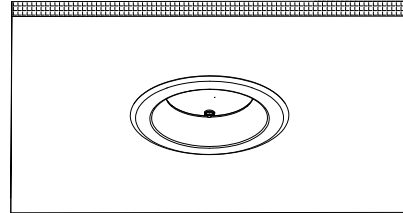
Fig: 17



INSTALLATION WITHOUT EXISTING FRAME *(cont'd)*

7. Push the fixture until the flange sits flush against the ceiling. *(Fig.18)*

Fig: 18



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 DECLARATION

- Batteries' lifetime is 5 years. If you are using or stocking the batteries for 5 years, please replace the batteries.
- The batteries cannot be charged for 5000 hours consistently.
Batteries need to be discharged once every 5000 hours.

LED INDICATOR STATUS

	Off: Battery disconnected
	Red stable: Battery charging or fully charged

TEST SWITCH

The test button is an open switch, if you press it, it connects and then you release it, it cuts off automatically.

When you are doing the daily maintenance, if you press the test button, the emergence driver goes into emergency mode, if you release the button, the emergency driver will go back to normal mode.

LED INDICATOR

The LED indicator light reflects the condition of the battery charger. The RED ring around the test switch will be lit when the battery is charging and will be off in the battery is disconnected.

Note: The LED indicator red light is not conspicuous when the main light is on, cover the main light can see the red indicator.

ATTENTION

- To guarantee the rated discharge time, please charge the battery for more than 12 hours.
The battery and fixture operate properly between 80% and 110% of the rated voltage of the luminaire.
- Charge and discharge cycle needs to be done at least once every three months, and the continuous charging time cannot exceed 3 months.

Monthly

1. Ensure that the test button light is illuminated.
2. Conduct a 30-second discharge test by depressing the test button.
3. The LED load should operate at reduced output.

Annually

1. Allow a 24-hour charge before conducting test.
2. Ensure that the test button light is illuminated.
3. Conduct a full 90-minute discharge test.
4. The unit should operate as intended for the duration of the test.

"Written records of the testing shall be kept by the owner for inspection by the authority having jurisdiction."

SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL.

Easy Answers

rablighting.com
Visit our website for product info

Tech Help Line
Call our experts: 888 722-1000

e-mail
Answered promptly - sales@rablighting.com

Free Lighting Layouts
Answered online or by request

TEMPLATE



DIAMETER: 4-5/16"(110mm)

CUT-OUT

RAB[®]

TEMPLATE



DIAMETER: 6"(152mm)

CUT-OUT

RAB®

TEMPLATE



DIAMETER: 8"(203mm)

CUT-OUT

RAB[®]

TEMPLATE



DIAMETER: 9"(228mm)

CUT-OUT

RAB[®]