

DLM2 — MODULAR LINKABLE SERIES

INSTALLATION INSTRUCTIONS

Step-by-step field guides for mounting, wiring, cutting, and linking DLM2 linear fixtures and connectors.

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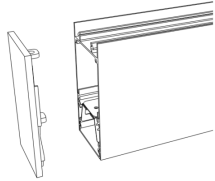
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BEFORE YOU BEGIN

Disconnect power at the circuit breaker before installation or servicing. Installation must be performed by a qualified electrician in accordance with applicable electrical codes. Confirm that all field-cut components, wiring connections, mounting hardware, and accessories are compatible with the specific fixture configuration.

HOW TO CUT MODULES

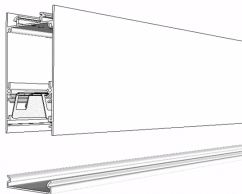
STEP 1



REMOVE THE END CAP

- 1 On the non-power end of the fixture, remove the single top screw securing the end cap. Carefully pull the end cap away from the housing.

STEP 2



REMOVE THE LENS

- 2 Starting at the open end, carefully lift or slide the lens out of the fixture housing. Set it aside where it will not be scratched.

STEP 3

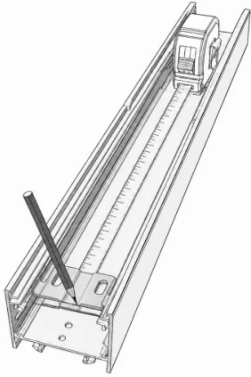


REMOVE THE LED TRAY

- 3 Disconnect the LED-board plug. Remove the LED board and supporting tray from the housing, then place both in a clean, dry location.

HOW TO CUT MODULES

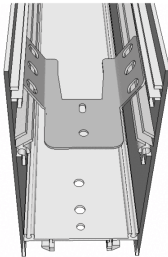
STEP 4



MARK THE CUT LINE

- 4** Measure the required finished length. Mark a square cut line across the fixture housing. Verify the measurement before cutting.

STEP 5



RELOCATE THE TRAY HOLDER

- 5** Remove the LED-tray holder from the section that will be discarded. Reinstall it on the retained side of the fixture, immediately behind the new cut line.

STEP 6

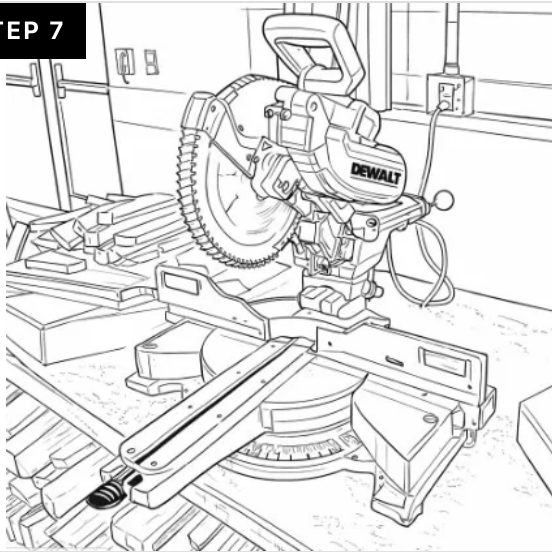


CLEAR THE CUTTING AREA

- 6** Push all internal wiring toward the driver end of the fixture. Confirm that no wires, connectors, or components cross the cut line.

HOW TO CUT MODULES

STEP 7



CUT THE HOUSING

7

Cut the aluminum housing using a fine-tooth blade specifically rated for aluminum. Support the fixture securely and keep the cut square.

CAUTION

Do not use a standard wood-cutting blade. An incorrect blade can bind, damage the extrusion, or cause injury.

STEP 8



REASSEMBLE THE FIXTURE

8

Remove any burrs from the cut edge. Reinstall the LED tray, reconnect the LED board, reinstall the lens, and secure the end cap.

CONNECTING SEGMENTS & SHAPE CONNECTORS

STEP 1



OPEN THE CONNECTION END

1

Remove the end cap, lens, LED board, and LED tray from the end being connected. Set the removed components aside.

STEP 2

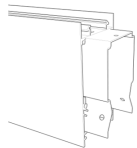


IDENTIFY THE CONNECTORS

2

Locate the three internal harnesses. The 6-pin line-voltage harnesses connect adjoining linear sections. The low-voltage harness connects a T, X, or Y shape connector.

STEP 3



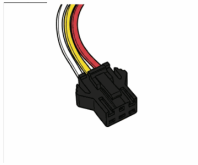
INSTALL THE INTERNAL BRACKET

3

Slide the internal connector bracket into the fixture. Secure it with three screws: one on each internal side and one through the rear of the housing.

CONNECTING SEGMENTS & SHAPE CONNECTORS

STEP 4



CONNECT LINEAR SEGMENTS

4

Feed the 6-pin quick connector beneath the internal bracket and connect it to the adjoining linear section. Prepare the adjoining fixture in the same manner, then push both housings together.

STEP 5



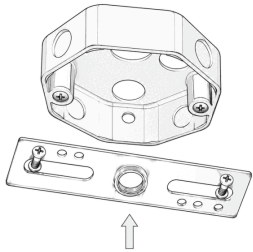
CONNECT A SHAPE CONNECTOR

5

Prepare the shape connector as described above. Join its low-voltage harness to the corresponding fixture connector, assemble the housings, and reinstall the lenses.

PENDANT MOUNT

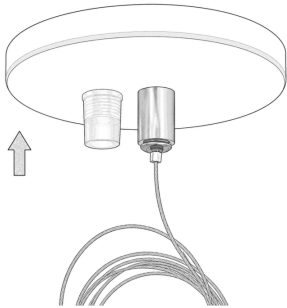
STEP 1



INSTALL THE CANOPY BRACKET

- 1 Fasten the supplied pendant canopy bracket to the ceiling junction box. Confirm that the bracket is secure and properly centered.

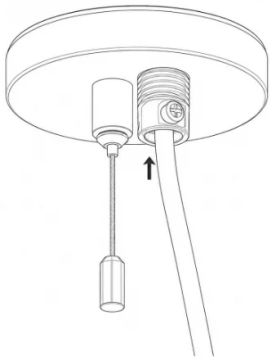
STEP 2



PREPARE THE CANOPY

- 2 Feed the aircraft cable and, on powered canopies, the fixture power cord through the appropriate canopy fittings. Position the canopy cover below the mounting bracket.

STEP 3

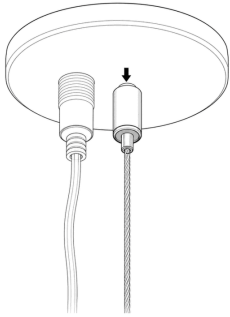


SECURE THE CABLE FITTINGS

- 3 Thread the aircraft-cable gripper spindle onto the canopy bracket. On powered canopies, route the power cord through the clear strain-relief fitting. Non-power canopies use the aircraft cable only.

PENDANT MOUNT

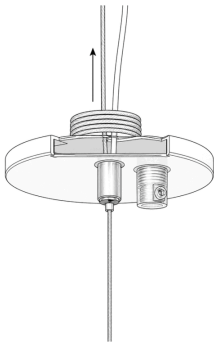
STEP 4



SET THE SUSPENSION HEIGHT

- 4** Feed the aircraft cable through the gripper until the fixture reaches the desired mounting height. Press the gripper collar to lower or readjust the cable.

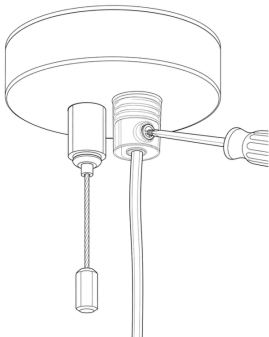
STEP 5



STORE EXCESS AIRCRAFT CABLE

- 5** Push excess aircraft cable upward through the canopy. Coil it neatly inside the junction-box area without pinching or sharply bending it.

STEP 6

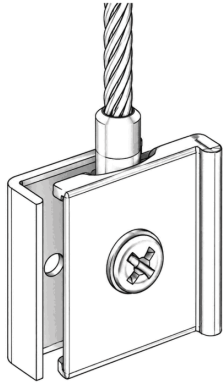


SECURE THE POWER CORD

- 6** Adjust the power cord so it hangs without tension. Tighten the strain-relief screw to lock the cord in position.

PENDANT MOUNT

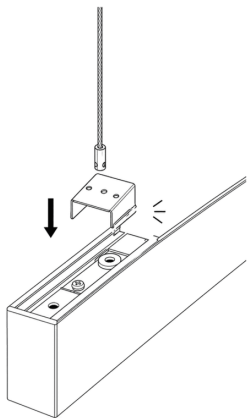
STEP 7



ATTACH THE SUSPENSION CLIP

- 7** Fasten the supplied suspension clip to the lower aircraft-cable fitting using the provided screw. Tighten it securely.

STEP 8

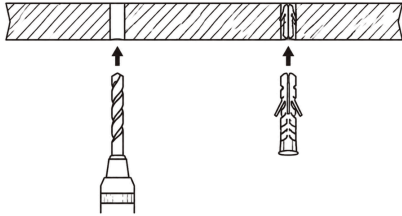


CONNECT THE FIXTURE

- 8** Align the suspension clip with the fixture's upper mounting channel. Press the clip onto the fixture until it snaps securely into position.

SURFACE MOUNT

STEP 1

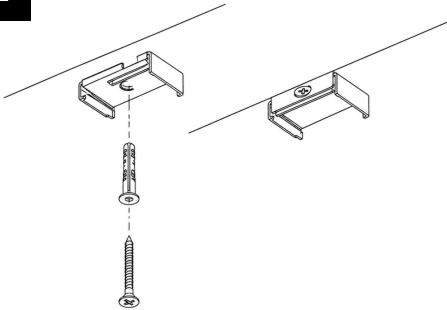


INSTALL THE ANCHORS

1

Mark each mounting location. Drill the required holes and install suitable expansion anchors or fasteners for the mounting surface.

STEP 2

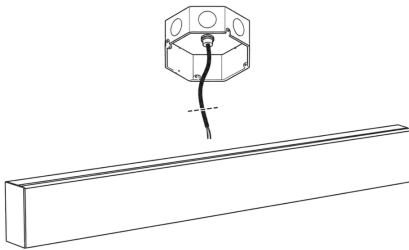


FASTEN THE MOUNTING CLIPS

2

Position each surface-mount clip over its anchor and secure it using the supplied screw. Keep all clips aligned along the fixture centerline.

STEP 3



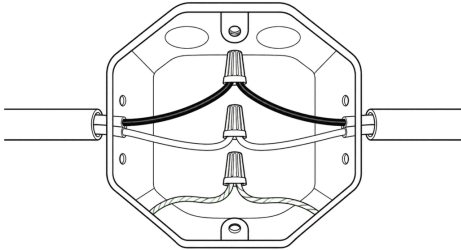
PREPARE THE FIXTURE WIRING

3

Route the fixture power cable to the junction box. Trim only if necessary, leaving enough wire for safe connections inside the box.

SURFACE MOUNT

STEP 4

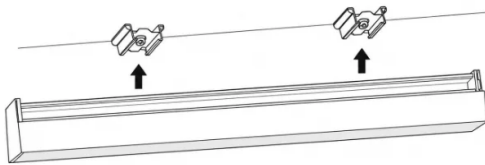


MAKE THE SUPPLY CONNECTIONS

4

With power off, connect the supply conductors to the fixture leads: black to AC-L, white to AC-N, and ground to GND. Secure all connections inside the junction box.

STEP 5

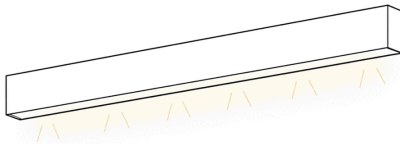


SNAP THE FIXTURE INTO PLACE

5

Raise the fixture, align its upper channel with the mounting clips, and press upward until every clip fully engages.

STEP 6



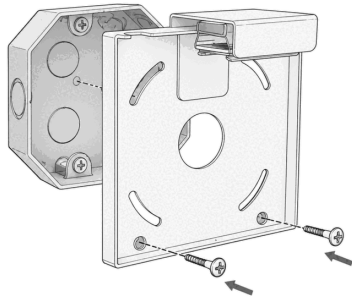
TEST THE INSTALLATION

6

Confirm that the fixture is secure. Restore power and verify proper operation.

WALL MOUNT

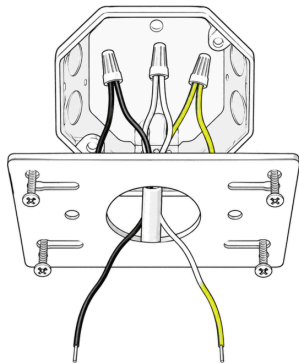
STEP 1



INSTALL THE WALL BRACKET

- 1 Fasten the wall-mount bracket to the junction box. Level the bracket before tightening the mounting screws.

STEP 2

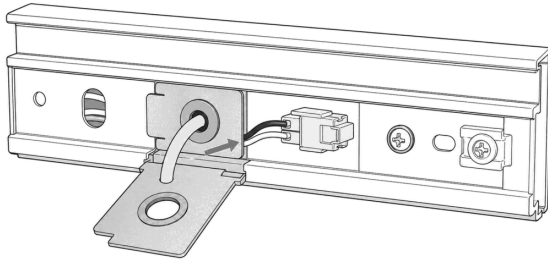


ROUTE AND CONNECT THE POWER CABLE

- 2 Feed the fixture power cable through the bracket and into the junction box. Trim it as required and complete the supply connections inside the box.

WALL MOUNT

STEP 3

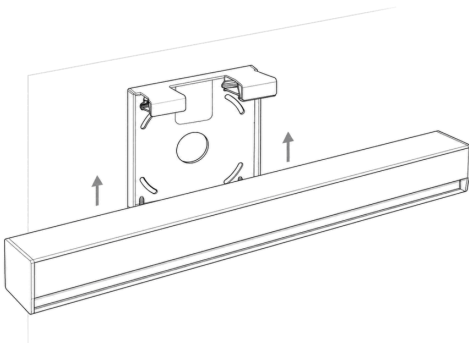


CONNECT THE FIXTURE END

3

Remove the fixture's rear access plate. Feed the other end of the power cable through the grommet and connect it to the internal power harness. Reinstall the access plate.

STEP 4



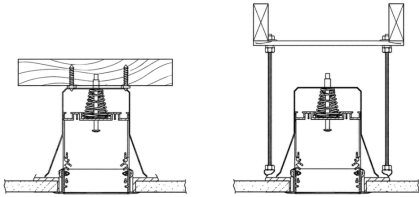
MOUNT THE FIXTURE

4

Raise the fixture to the wall bracket, align it with the bracket clips, and press it into place until both clips fully engage.

RECESSED MOUNT – TRIMLESS OR TRIMMED

STEP 1

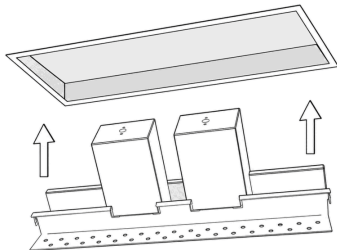


PROVIDE STRUCTURAL SUPPORT

1

Install blocking above the ceiling to support the recessed mounting assembly. If blocking is unavailable, suspend the assembly from the structure above using properly rated threaded rods.

STEP 2

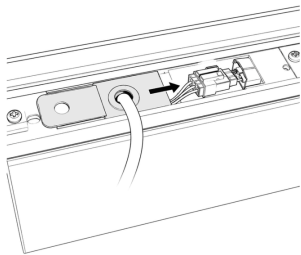


INSTALL THE RECESSED FRAME

2

Position the recessed trim or trimless frame in the ceiling opening. Secure it to the prepared supports and verify that it is straight and level.

STEP 3



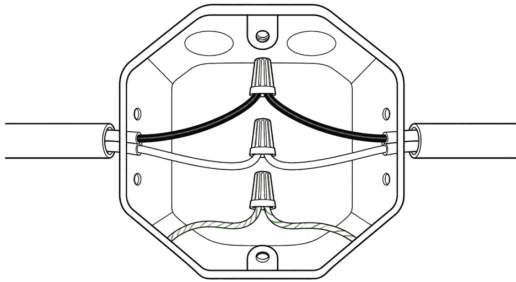
CONNECT THE INTERNAL POWER CABLE

3

Remove the gray access plate from the fixture. Feed the power cable through its grommet and connect it to the fixture's internal power harness. Reinstall the access plate.

RECESSED MOUNT — TRIMLESS OR TRIMMED

STEP 4

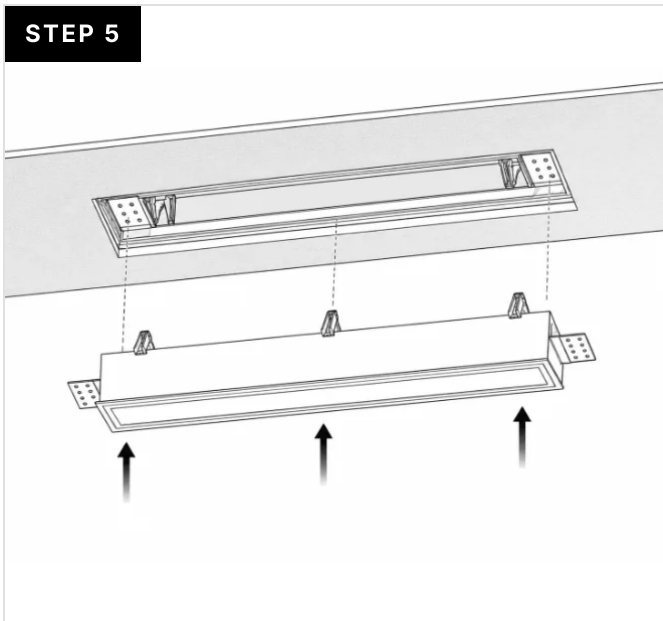


MAKE THE SUPPLY CONNECTIONS

4

With power off, connect the fixture cable to the building supply inside the accessible junction box. Keep all splices enclosed.

STEP 5



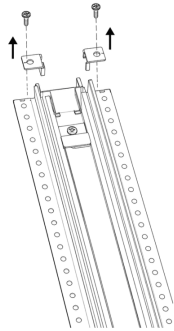
INSTALL THE FIXTURE

5

Raise the fixture into the recessed frame. Press upward until the mounting clips engage, then confirm that the fixture sits straight and flush with the finished ceiling.

UPLIGHT MODULE INSTALLATION

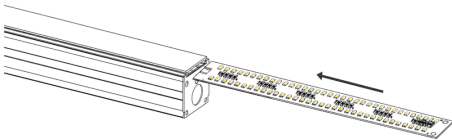
STEP 1

**1**

REMOVE THE RETAINING CLIPS

Remove the retaining clip from each end of the fixture's upper channel.

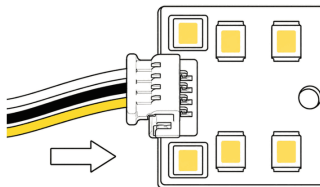
STEP 2

**2**

INSERT THE UPLIGHT LED BOARD

Slide the upright LED board into the housing groove. Orient the board so its terminal end enters from the side containing the power knockout.

STEP 3

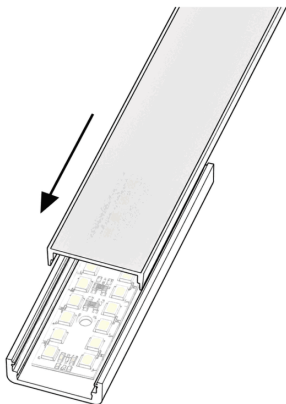
**3**

CONNECT THE LED BOARD

Connect the LED-board terminal plug to the corresponding wire lead inside the fixture. Confirm correct polarity and full engagement.

UPLIGHT MODULE INSTALLATION

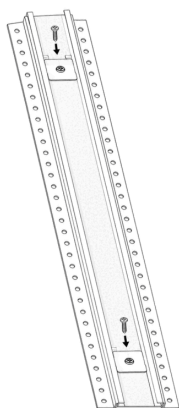
STEP 4



INSTALL THE UPLIGHT LENS

- 4** Slide the uplight lens over the LED board until it is fully seated in the housing grooves.

STEP 5



REINSTALL THE RETAINING CLIPS

- 5** Reinstall the retaining clip at each end to secure the LED board and lens.

12V SENSOR INSTALLATION

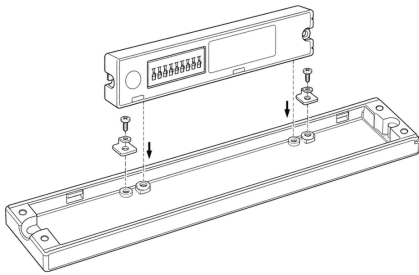
STEP 1



OPEN THE FIXTURE

- 1 Remove the lens and LED tray to expose the internal driver and wiring compartment.

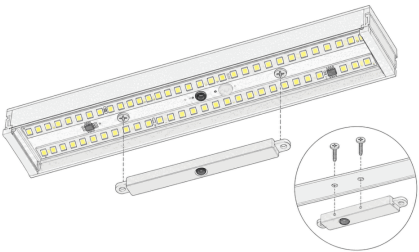
STEP 2



ATTACH THE SENSOR

- 2 Position the sensor on the underside of the LED tray. Secure it using the supplied mounting accessories and screws.

STEP 3

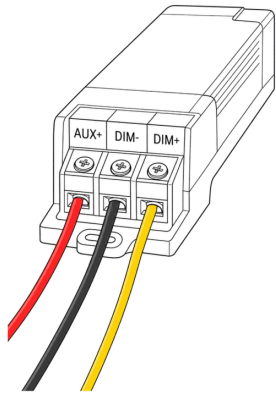


REINSTALL THE LED TRAY

- 3 Return the LED tray to the fixture with the sensor facing inward toward the housing. Secure the tray with its original screws.

12V SENSOR INSTALLATION

STEP 4

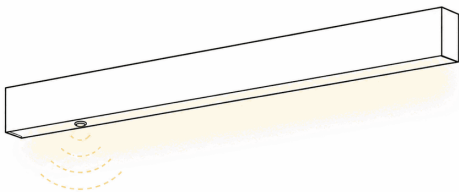


CONNECT THE SENSOR WIRES

4

Connect the sensor leads according to the driver terminal markings: red to AUX+, black to DIM-, and yellow to DIM+. If production wire colors differ, follow the terminal labels and the sensor datasheet rather than relying on color alone.

STEP 5



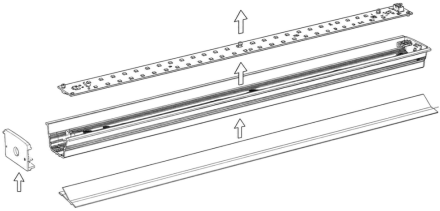
CLOSE AND TEST THE FIXTURE

5

Arrange all wires so they cannot be pinched. Reinstall the LED tray and lens, restore power, and test sensor operation.

EMERGENCY PACK INSTALLATION

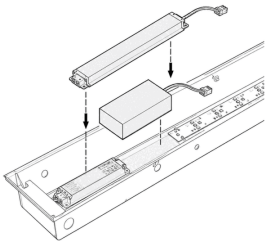
STEP 1



OPEN THE FIXTURE

- 1 Disconnect power. Remove the lens and LED tray to expose the driver and internal wiring.

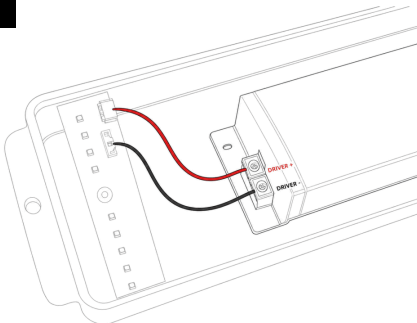
STEP 2



POSITION THE EMERGENCY COMPONENTS

- 2 Place the emergency driver and battery pack inside the fixture housing. Confirm that they fit without obstructing the LED tray, wiring, or connectors.

STEP 3

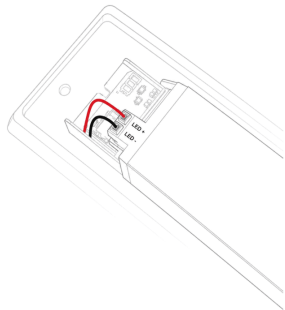


CONNECT THE NORMAL DRIVER OUTPUT

- 3 Disconnect the normal driver's LED-output leads from the LED boards. Connect those driver-output leads to the emergency driver terminals marked DRIVER, maintaining correct polarity.

EMERGENCY PACK INSTALLATION

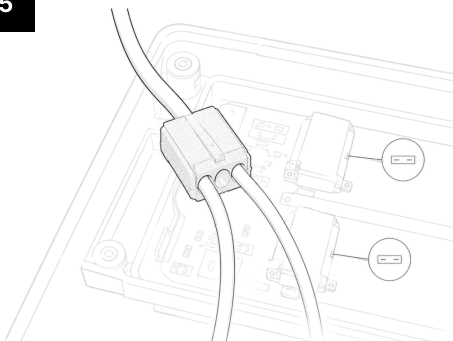
STEP 4



CONNECT THE LED LOAD

- 4** Connect the LED-board leads to the emergency driver terminals marked LED. Maintain the correct positive and negative polarity.

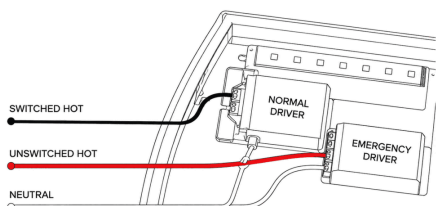
STEP 5



CONNECT THE NEUTRAL

- 5** Splice the incoming neutral into three branches: one to the normal driver, one to the emergency driver, and one continuing to the incoming supply neutral.

STEP 6

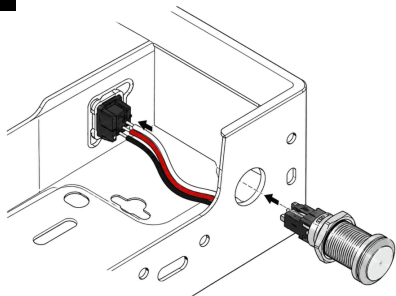


PROVIDE BOTH HOT CONDUCTORS

- 6** Provide a switched hot for normal fixture operation and a separate unswitched hot for the emergency driver's charging and sensing circuit. The completed fixture will therefore require two hot conductors and one neutral.

EMERGENCY PACK INSTALLATION

STEP 7

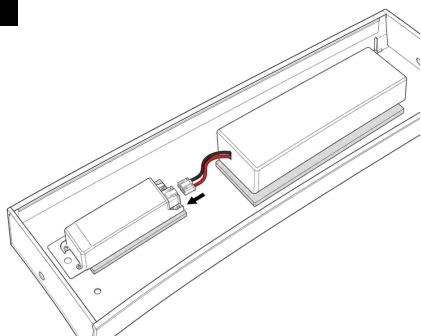


INSTALL THE TEST SWITCH

7

Mount the emergency test button through the fixture housing. Connect its three-wire harness to the test-switch terminal on the emergency driver.

STEP 8

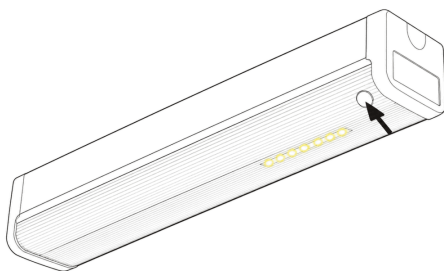


SECURE AND CONNECT THE BATTERY

8

Secure the emergency driver and battery pack using approved double-sided mounting tape or the supplied fasteners. Connect the battery only when the fixture is expected to be energized within 30 days.

STEP 9



CLOSE AND TEST THE FIXTURE

9

Arrange and secure all wiring. Reinstall the LED tray and lens. Energize the fixture, allow the battery to charge, and test emergency operation using the test button.

DISCLOSURE

This guide reflects DirectLED's approved DLM2 installation content and renderings. Field conditions vary — confirm fixture configuration, code requirements, and accessory compatibility before installation. Contact DirectLED with questions.