C-LITE C-TR-B-BT LED Troffer with Adjustable Color Temperature and Wattage Instruction Manual

Contents

C-LITE C-TR-B-BT LED Troffer with Adjustable Color Temperature and Wattage

IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

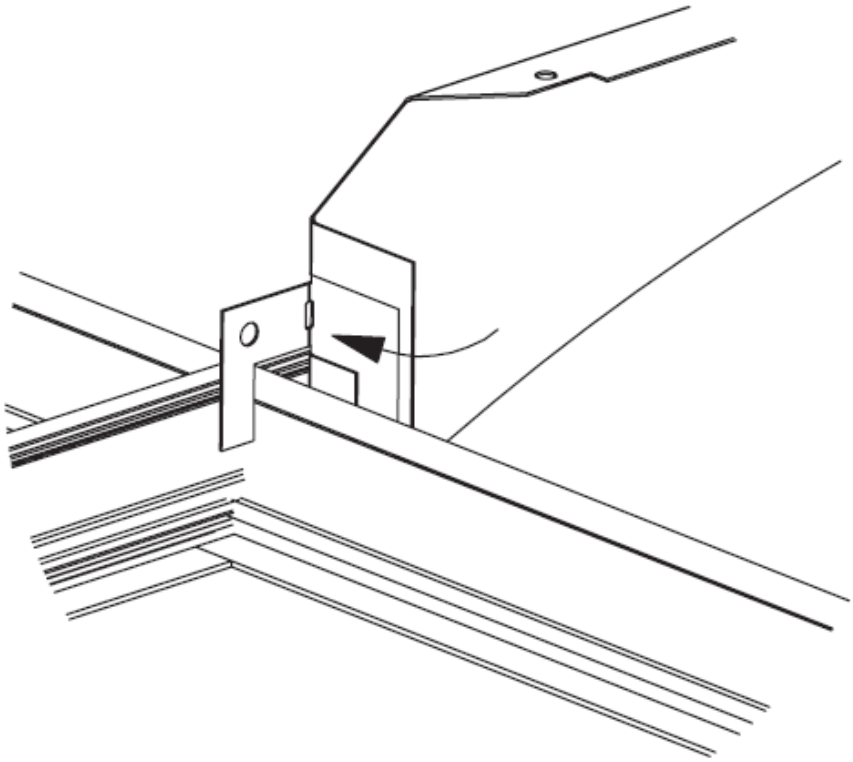
READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **DANGER**– Risk of shock- Disconnect power before installation.
2. **Caution** – Risk of Fire.
3. This luminaire must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician.
4. Suitable for damp locations. Convient aux emplacements humides.
5. Min 90°C supply conductors.
6. Type IC. Inherently protected.
7. The vapor barrier must be suitable for 90°C.
8. Access above the ceiling is required.

INSTALLATION

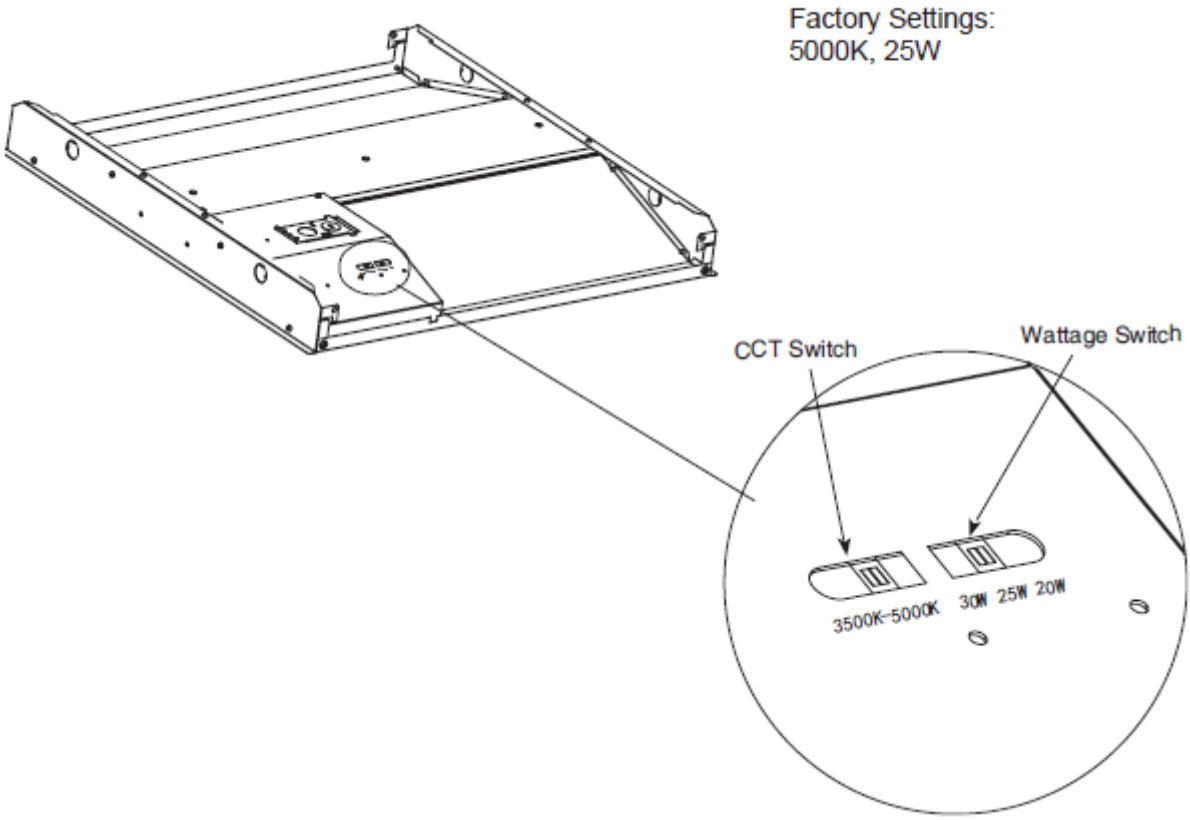
1. Locate desired fixture located in the ceiling grid.
2. Remove the existing ceiling panel at the chosen location. Remove adjacent ceiling panels to allow for wiring access from above.
3. Place fixture into T-bar ceiling grid. Bend clips on the sides of the fixture to engage with the T-bar support grid. See Figure 1. If necessary, use side cutters to adjust each tab to a height of T-grid.

FIGURE 1



4. Secure fixture to grid in compliance with state and local codes.
5. Remove the screw on the driver wiring chamber, slide the cover to side, and remove the cover. Set screw and cover aside to be reinstalled later.
6. Remove appropriate 1/2″ knockout(s) to allow for entry of supply wiring into the wiring chamber.
7. Make wiring connections per the Electrical Connections section.
8. Reattach the wiring chamber cover with a screw that was removed in Step 5 above.
9. Select the desired CCT and wattage using the dip switches on the top of the driver enclosure. See **Figure 2.**

FIGURE 2



10. Replace the adjacent ceiling panel that was removed in Step 2 above.

ELECTRICAL CONNECTIONS

NOTE:
Luminaire equipped with universal volt driver 120-277V. Connecting luminaire to voltage outside the range of 120-277V may result in luminaire damage and/or improper luminaire operation. The emergency driver must be fed from the same branch as the AC Driver.

The fixture is equipped with a universal volt driver 120-277V (ie. 120V, 208V, 240V or 277V).

PHASE TO NEUTRAL WIRING 120/277V

1. Connect the black luminaire lead from the emergency driver to the voltage supply hot lead.
2. Connect the black luminaire lead from the LED driver to the supply-switched hot lead.
3. Connect the white luminaire lead from the emergency driver to the neutral supply hot lead.
4. Connect the green/yellow luminaire ground lead to the supply ground lead.
5. Connect the violet (+) test switch lead from the emergency driver to the violet lead from the test switch.
6. Connect the brown (-) test switch lead from the emergency driver to the brown lead from the test switch.

Tuck all wires carefully into wiring chamber ensuring that no wires are pinched.

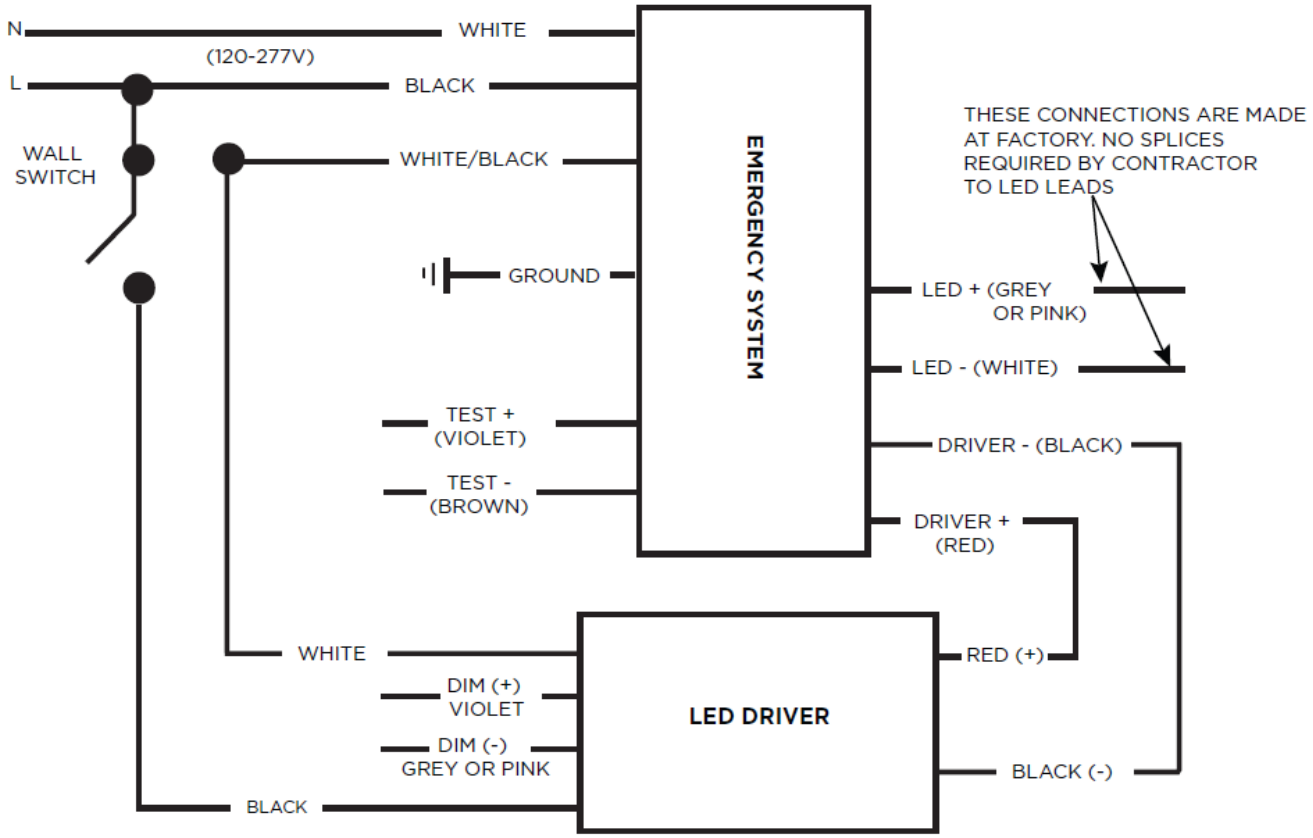
PHASE TO PHASE WIRING 208/240V

1. Connect the black luminaire lead from the emergency driver to the L1 voltage supply hot lead.
2. Connect the black luminaire lead from the LED driver to the L1 supply switched hot lead.
3. Connect the white luminaire lead from the emergency driver to the L2 supply hot lead.
4. Connect the green/yellow luminaire ground lead to the supply ground lead.
5. Connect the violet (+) test switch lead from the emergency driver to the violet lead from the test switch.
6. Connect the brown (-) test switch lead from the emergency driver to the brown lead from the test switch.

Tuck all wires carefully into wiring chamber ensuring that no wires are pinched.

DIMMING

1. If 0-10V dimming is used, connect supply positive dimming lead to luminaire positive dimming [0-10V (DIM +)] violet terminal on the terminal block in the driver wiring chamber.
2. If 0-10V dimming is used, connect supply negative dimming lead to luminaire negative dimming [0-10V (DIM -)] grey or pink terminal on the terminal block in the driver wiring chamber.



EMERGENCY DRIVER CHECK

NOTE:
For short-term testing of the emergency function, the battery must be charged for at least one hour. The emergency driver must be charged for at least 24 hours before conducting a long-term test.

STEP 1:
When AC power is applied, the charging indicator light is illuminated, indicating the battery is being charged. When power fails, the emergency driver automatically switches to emergency power, operating the LED array. When AC power is restored, the emergency driver returns to the charging mode.

STEP 2:
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:

- Visually inspect the charging indicator light monthly. It should be illuminated.
- Test the emergency operation of the fixture at 30-day intervals for a minimum of 30 seconds. When the test switch is depressed, the LED array should operate.
- Conduct a 90-minute discharge test once a year. The LED array should operate for at least 90 minutes.

If the luminaire fails any of these checks, consult service personnel.

REFER ANY SERVICING INDICATED BY THESE CHECKS TO QUALIFIED PERSONNEL EMERGENCY DRIVER AND AC DRIVER MUST BE FED FROM THE SAME BRANCH CIRCUIT.

FCC NOTICE Class A

CAUTION:
Changes or modifications not expressly approved could void your authority to use this equipment.

This device complies with part 15 of the FCC Rules.
Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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. CAN ICES-005 (A)/NMB-005 (A).

Documents / Resources

	C-LITE C-TR-B-BT LED Troffer with Adjustable Color Temperature and Wattage [pdf] Instruction Manual C-TR-B-BT, LED Troffer with Adjustable Color Temperature and Wattage, Adjustable Color Temperature and Wattage, Color Temperature and Wattage, LED Troffer, C-TR-B-BT, Troffer

References

- Warranties - Cree Lighting