



**PLT-90352 Sele Ctable
LED Troffer Fixture with
Emergency Backup**



PLT SOLUTIONS PLT-90352 Sele Ctable LED Troffer Fixture with Emergency Backup Instructions

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PLT SOLUTIONS PLT-90352 Sele Ctable LED Troffer Fixture with Emergency Backup



Specifications

- Field-Adjustable Wattage & CCT
- Emergency Battery Back-up
- Self-Diagnostic Mode
- Recharge time: 12 hours
- Operation time: 90 minutes with 1000-1500 lumens output

Product Usage Instructions

Installation Steps

1. Always turn off the power supply from the main circuit breaker first!
2. Bend out the mounting tab 90 degrees on each corner as shown in Figure 1.
3. Lay the fixture into a T-grid grid as shown in Figure 2.
4. Use hanger wire to tie off appropriately according to the local building code as shown in Figure 3.
5. Install conduit containing the line, neutral, and ground conductors to the knockout of the cover plate.
6. Make all electrical connections to the fixture and attach the wiring access cover plate as shown in Figure 4.

Adjusting Wattage & CCT

The end users can adjust the color temperature and lumen output using the DIP switches. Each switch has 3 options corresponding to 3 color temperatures and 3 wattages. Follow these steps:

1. DIP switches are located on the side of the fixture.
2. Select a wattage and color temperature by sliding the switch left or right to the desired value.

Emergency Driver and Battery

For emergencies, follow the wiring diagram provided for the Emergency Battery Back-up. Always turn off the power supply from the main circuit breaker before proceeding.

Self-Diagnostic Mode

To enable or disable the Self-Diagnostic mode, follow these steps:

- Dip Switch enable position and Learned LED load will enable the Self-Diagnostic function. ENABLE is the default setting.
- Move the Dip Switch to DISABLE if Self-Diagnostic functionality is not desired.

Installation Instruction

WARNING

- To reduce the risk of death, personal injury, or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance on this equipment, follow these general precautions.
- Commercial installation, service, and maintenance of luminaires should be performed by a qualified licensed electrician.
- For the installation: If you are unsure about the installation or maintenance of the luminaires, consult a qualified licensed electrician and check your local electrical code.
- To prevent wiring damage or abrasion, do not expose wiring to the edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

WARNING

- Turn off electrical power at the fuse or circuit breaker box before wiring the fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that the supply voltage is correct by comparing it with the luminaire label information.
- All wiring connections should be capped with UL-approved wire connectors.

CAUTION

- Avoid direct eye exposure to the light source while it is on.
- Account for small parts and destroy packing material, as these may be hazardous to children.
- Risk of burn. Disconnect power and allow the fixture to cool before handling the fixture.
 - **NOTICE:** Green ground screw provided in the proper location. Do not relocate.
 - **NOTICE:** Minimum 90° supply conductors.
 - **NOTICE:** Specifications and dimensions are subject to change without notice.
 - **NOTICE:** Suitable for Dry or Damp location, Type IC.

INSTRUCTIONS

Always turn off the power supply from the main circuit breaker first!

Figure 1

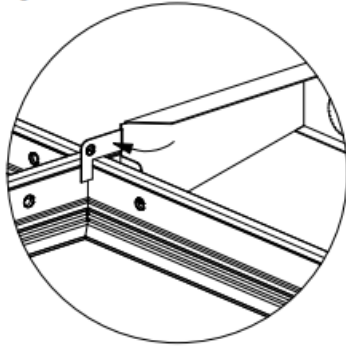


Figure 2

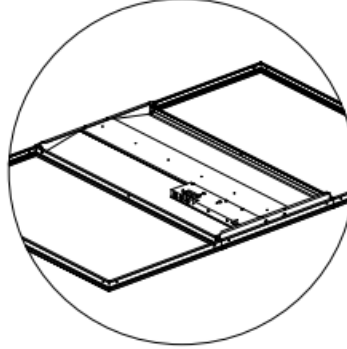


Figure 3

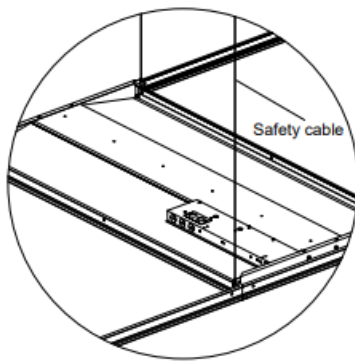
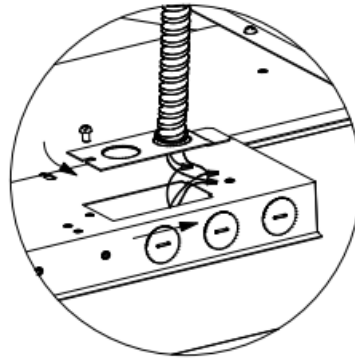


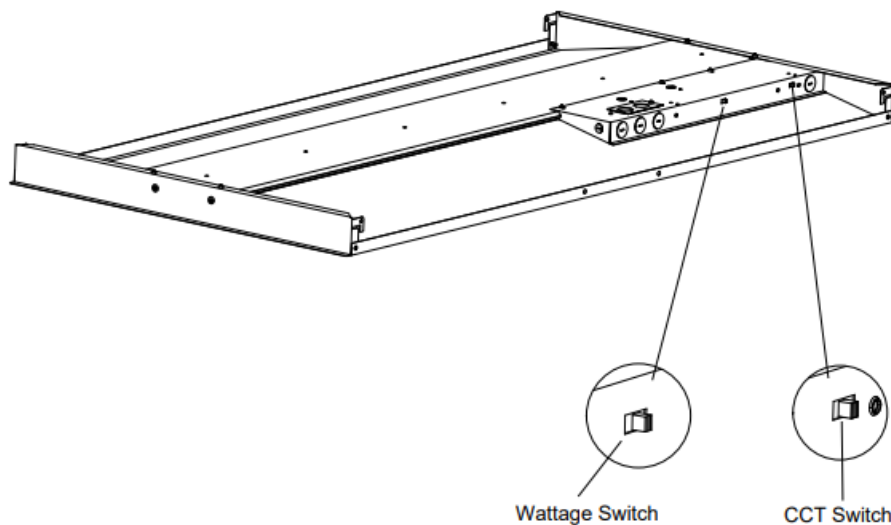
Figure 4



Installation Steps

- **Figure 1:** Bend out the mounting tab 90 degrees on each corner.
- **Figure 2:** Lay fixture into T-gird grid.
- **Figure 3:** Use hanger wire to tie off appropriately according to the local building code.
- **Figure 4:** Install conduit containing the line, neutral, and ground conductors to the knockout of the cover plate. Make all electrical connections to the fixture. Attach the wiring access cover plate.

Field-Adjustable Wattage & CCT



The end users may adjust the color temperature and lumen output respectively by the two DIP switches. Each DIP switch is accommodated with 3 options (left, middle, and right), corresponding to 3 color temperatures and 3 wattages respectively, which can perform the desired color temperature and lumen output combination.

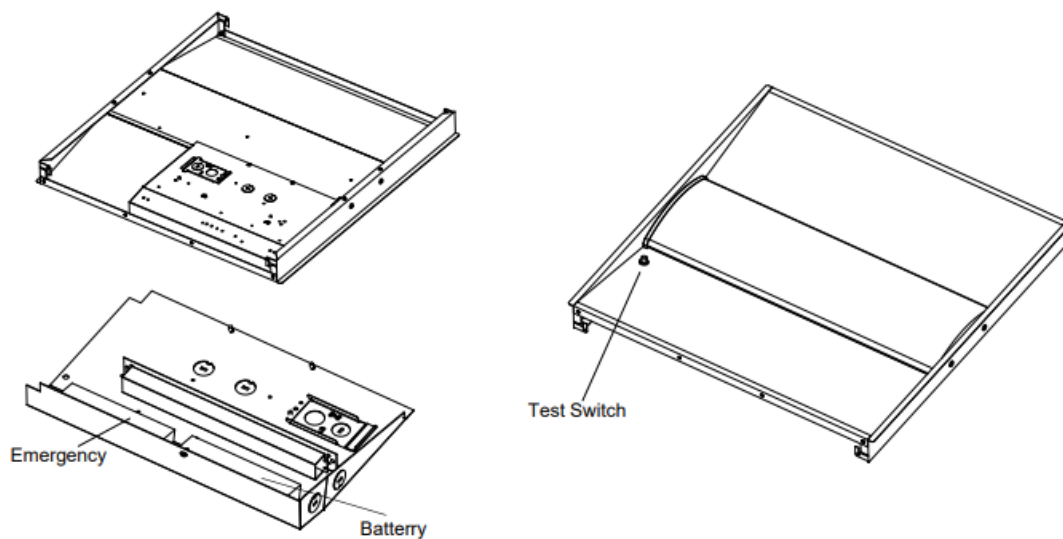
Factory Settings: CCT: 5000K

- PLT-90352: 30W
- PLT-90353: 45W

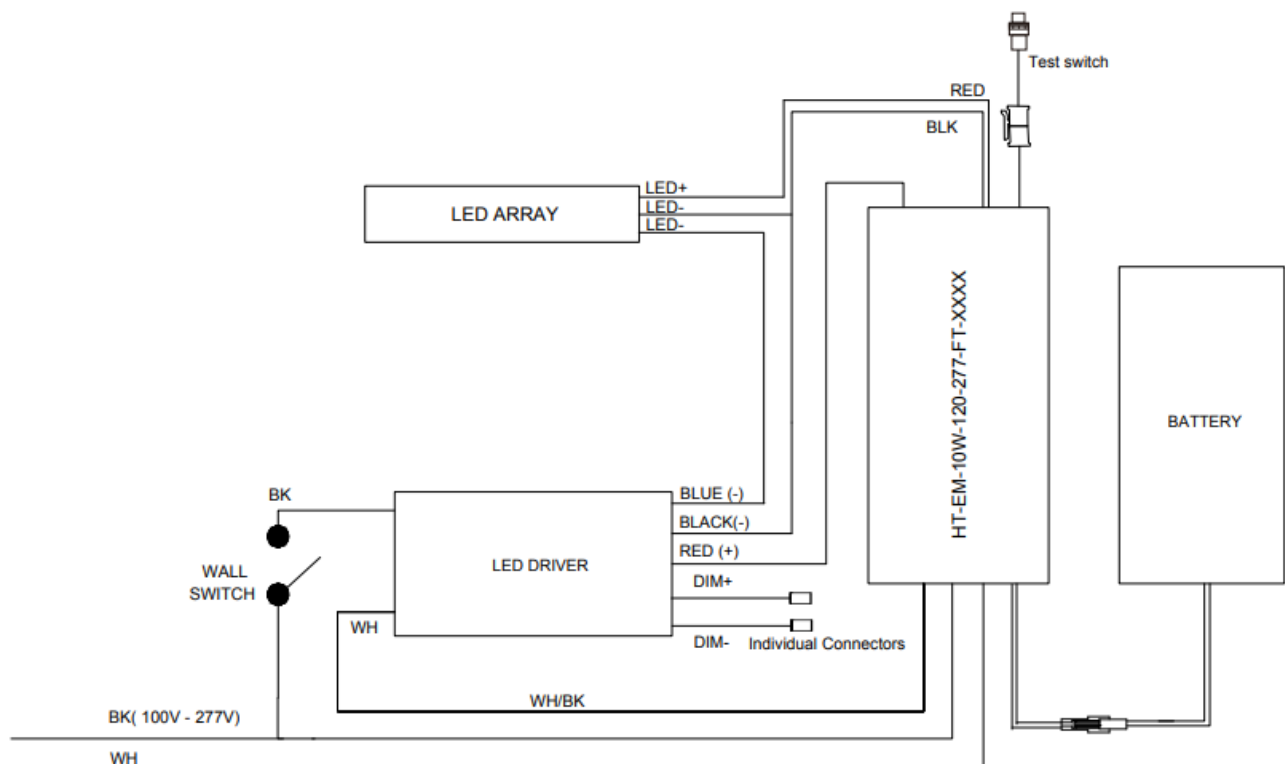
1. DIP switches are located on the side of the fixture.
2. Select a wattage and color temperature by sliding the switch left or right respectively to the desired value.

Emergency Driver and Battery

- **Emergency Battery Back-up, EM Model:** HT-EM-10W-120-277-FT-XXXX
- **Notice:** Always turn off the power supply from the main circuit breaker first!



General Wiring Diagram



TEST SWITCH INDICATOR STATUS

LED Indicators Status	EM Driver Status/Mode
• Solid Green	• System OK/AC OK
• Red indicator flashing, 4S ON, 1S OFF	• Low battery voltage, Self-Diagnostic failed
• Green indicator, 1S ON, 1S OFF	• Self-Diagnostic mode
• The indicators light OFF	• Power grid turn off, Emergency mode
• Alternate brightness of red and green, 1S RED, 1S GREEN	• Load Open
• Red indicator flashing, 1S ON, 1S OFF	• Load short, Self-Diagnostic mode
• Alternate brightness of red and green, 4S RED, 1S GREEN	• Self-diagnostic and the output current exceeds 25% of the rated value

Self-Diagnostic mode

1. Each month auto self-diagnostic
2. Each Year auto self diagnostic 90 minutes

Self-Diagnostic Mode Enable and Disable operation method

Dip Switch enable position and Learned LED load will enable the Self-Diagnostic function. "ENABLE" is the default setting. Move the Dip Switch to "DISABLE" if Self-Diagnostic functionality is not desired.



Recharge time

- 12 hours

Operation time

90 minutes with 1000-1500 lumens output

The fixture can be switched off by a connected wall switch. When emergency conditions (main power off), use the wall switch to turn on the fixture which will be running in emergency mode.

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

- **IMPORTANT:** An un-switched AC power source of 100VAC to 277VAC is required for the black and white leads.
- **IMPORTANT:** A switched or un-switched AC power source of 100VAC to 277VAC is acceptable for the black lead only.
- This device is designed for use in fixtures listed for damp locations.
- **CAUTION:** Do not use outdoors.
- **CAUTION:** The use of accessory equipment not recommended by the manufacturer may cause an unsafe

condition.

- **CAUTION:** Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.
- **CAUTION:** Do not mount near gas or electric heaters.
- **CAUTION:** Do not use this emergency driver with accessory equipment other than recommended by the manufacturer; failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel.
- **CAUTION:** Do not use this emergency driver for other than intended use.
- **CAUTION:** The battery is rechargeable LiFePo4 type and must be recycled or disposed of properly.
- **CAUTION:** Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

SAVE THESE INSTRUCTIONS

- **TESTING SYSTEM:** The emergency battery requires a minimum charge time of one (1) hour before testing the circuit. A minimum of twelve (12) hours is required for a full charge.
- **IMPORTANT:** In order to maintain proper operation and warranty coverage, the battery must be recharged once per year before installation.
- **RATED EMERGENCY OPERATION:** Ninety (90) minutes for the 10W load
- **Max. mounting height:** __17.7__ ft (__5.39__ m) or the equivalent.
- **Model** HT-EM-10W-120-277-FT-XXXX
- **Associated Target Luminaire** E485624 (PRECISION LIGHTING & TRANSFORMER, INC.), Model PLT-90352 and PLT-90353, with LED model STW8A2PD-XX, made by Seoul

Any further questions or interests, please visit
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FAQ

- **Q: How do I adjust the color temperature and lumen output of the fixture?**
 - A: Use the DIP switches on the side of the fixture to select your desired settings.
- **Q: What should I do in case of an emergency power outage?**
 - A: Use the wall switch to turn on the fixture which will run in emergency mode providing up to 90 minutes of operation with reduced output.
- **Q: How can I know if the Self-Diagnostic mode is enabled?**
 - A: The LED indicators will show the status of the EM Driver and mode of operation.

Documents / Resources

