

Battery Backup Unit Compatibilities for T8 Uni-Fit Tube Lamps

This list provides the known and tested compatible battery backup units for Revolution Lighting's Uni-Fit LED T8 Tube Lamps. Please see all notes and information after each table and at the end of this document. Please verify that your ballast is on the most recent version of this list at www.rvlti.com before installation.

Recommended Battery Backup Unit for Uni-Fit T8 Tube Lamps (Subject to Change)

In order to use Uni-Fit Tube Lamps in an existing emergency lighting fixture, Revolution Lighting recommends using one of the battery backup units listed in the table below, which will keep one (1) tube lit for the required 90 minutes per NFPA 70 NEC code requirements.

Battery Backup Unit Model No.	UL-Listed Install Type	Initial Lumen Output ¹ (Fluorescent)	Illumination Time ²	Battery Type	T8 Uni-Fit Compatibility ³ <i>Applicable SKU Families: 202220-01X, 203220-01X, 204220-01X, 204221-01X, 204222-01X</i>
Philips Bodine					
Bodine B50	Factory or Field	1,600 Lumens	90 Minutes	Nickel-Cadmium	YES
Fulham					
Firehorse FH5-DUAL-1400L	Factory or Field	1,400 Lumens	90 Minutes	Nickel-Cadmium	YES

NOTES:

YES = Tested and Compatible

1 - Battery manufacturer initial lumen output specification when used with fluorescent tubes on battery power. Revolution Lighting Uni-Fit Tube Lamp will be powered at full brightness, so results will vary from battery manufacturer specifications. See Uni-Fit Tube Lamp spec sheet for light output and other tube lamp performance information.

2 - Tested and approved for compatibility when used with one (1) LED tube lamp only.

3 - 90 minutes is the mandated minimum run time per NFPA 70 NEC code. Due to their efficient low power consumption, Uni-Fit Tube Lamps will run MUCH longer, however, results will vary.

NFPA 70 NEC code mandates a minimum light level of 0.6 foot-candles on the ground from an emergency lighting fixture to be maintained for a minimum of 90 minutes. In order to confirm that appropriate results will be achieved, Revolution Lighting products should be installed in their actual intended fixture/area for final verification of operation and performance. Conduct a test using the emergency fixture(s) within the actual area to ensure that the single battery-lit tube will provide safe emergency egress light levels.

Check with all agencies having jurisdiction to verify if any other life safety codes may apply.

Several factors can adversely affect actual ballast/battery performance, including ballast condition, wiring/socket condition, power supply instability, power switch type, installation situation, ambient temperature, and vibration. The quality of the main power supplied to the region/facility/room/area, existing wiring and installation, and varying production versions of the above listed ballasts may affect ballast/lamp performance. As always, Revolution Lighting products should be installed in their actual intended fixture/area for final verification and approval of operation and performance.

Compatibility with battery units has only been tested and confirmed with the linear Uni-Fit Tube Lamps listed in the table above at this time. The presence of a battery in this table is not a guarantee or warranty of the compatibility of the LED lamp/luminaire in any particular installation. Incompatibility of a battery unit not listed in this table should not be assumed. If the intended battery unit is not listed in the table above, contact your Revolution Lighting representative to request specific battery compatibility testing.

Please refer to the emergency lighting battery unit manufacturer's specifications and installation instructions for additional information.

Please refer to the "Important Safeguards for Pre-Installation, Installation, and Post-Installation of All Revolution Lighting Ballast-Ready Tube Lamps" section below for additional information about system safety and performance.

TESTING NOTE:

Revolution Lighting's in-house compatibility testing is conducted in a controlled laboratory environment utilizing basic on/off switching and 24- to 72-hour longevity tests. During this time the battery is charged completely according to the manufacturer's instructions before we collect electrical and thermal measurements to determine if the ballast-battery-lamp relationship is efficient, reliable, and safe. Several factors can adversely affect actual ballast and battery performance, including ballast/battery condition, wiring/socket condition, power-supply instability, power switch type, installation situation, ambient temperature, and vibration.

Important Safeguards for Pre-Installation, Installation, and Post-Installation of All Revolution Lighting Ballast-Ready Tube Lamps

Please read the following important safeguards to be taken before, during, and after installation

- Before installing any Uni-Fit Tube Lamps, Revolution Lighting strongly suggests replacing all ballasts with new ballasts that have been tested and listed on the Revolution Lighting Ballast Compatibility List. The latest compatibility list can be found here: <http://rvlti.com/support.php#Uni-Fit-Ballast-Compatibility-List>. If full ballast replacement is not possible, EACH AND EVERY ballast at the job site must be checked to ensure that it is has been tested and is listed on the Revolution Lighting Ballast Compatibility List prior to the installation of the Uni-Fit Tube Lamps. Therefore, ballasts ideally should be checked during the initial sales audit/quoting phase or during the installation phase of the project. Ballasts that are three (3) years old or older should be replaced with new compatible ballasts.
- Before installing Uni-Fit Tube Lamps, ensure that the number of tubes installed in the fixture matches the allowable number of tubes as printed on the ballast. **DO NOT DE-LAMP THE FIXTURE AND INSTALL FEWER THAN THE NUMBER OF LED TUBES INTENDED.** For example, if the ballast is made to handle 4 tubes, ensure that 4 LED tubes are installed. If fewer than 4 tubes are needed, install an appropriate ballast for that number of tubes.
- Before buying and installing Revolution Lighting Uni-Fit Tube Lamps, check the configuration and condition of the fixture wiring. Ensure that the wiring configuration used matches the appropriate wiring diagram printed on the ballast to be used. Revolution Lighting strongly suggests replacing ALL of the wiring in the fixture if any wires are damaged or in poor condition.
- Revolution Lighting strongly suggests replacing ALL of the sockets in the fixture using the appropriate size and style to match the fixture and ballast type in order to avoid any complications or failures due to damaged or fatigued sockets. If full replacement of all sockets is not possible, check the condition of the fixture sockets (tombstones) BEFORE buying and installing Uni-Fit Tube Lamps. Any damaged or defective sockets MUST be replaced prior to installing Uni-Fit Tube Lamps.
- Before installing Uni-Fit Tube Lamps, ALWAYS ENSURE THAT THE POWER TO THE FIXTURE (BALLAST) IS OFF BEFORE AND DURING THE INSTALLATION of any Uni-Fit Tube Lamps or other products. Remove and replace ALL tubes in the fixture before turning power to the fixture (ballast) back ON. **NO HOT SWAPPING!** Failure to have the power OFF will void the Uni-Fit Tube Lamp warranty.

CORRECT

WRONG

WRONG



WARNING – High-voltage arcing from poor contact can generate high heat that could potentially lead to melting and charring of the socket or tube damage! Always ensure that the tubes fit properly in the fixture and sockets before restoring power to the fixture!