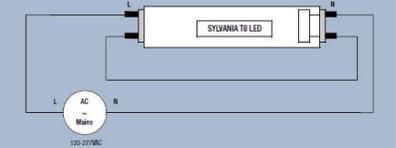


Wiring & Installation Comparison of Leading LED T8 Tubes

LED T8 tubes are now used widely for replacing linear fluorescent lamps in existing fixtures for commercial and industrial and educational lighting applications due to their energy efficiency, longer lifetime and lower maintenance cost. What most people may not understand is that not all LED T8's are wired the same. Different LED T8 wiring design affects greatly the installation time and labor costs. In some cases projects can be delayed when the lamp holder configuration was not taken into account. In most projects the targeted fixtures have shunted lamp holders (estimated 60% fixtures in use have shunted lampholders). Using an LED T8 that can only work with a non-shunted lamp holder will increase the project cost with additional time (per fixture) on lamp holder replacement. **Aleddra EasiRetrofit™ LED T8 lamps are compatible with both non-shunted and shunted lamp holders by using a patented double-safety switch design.** While other major LED T8 lamp manufacturers now provide extra parts (wirings and non-shunted lamp holders) needed to properly complete the project, this only adds to the cost of installation. Below is a side-by-side comparison of leading LED tubes available on the market for use in retrofit projects with double-ended fixtures.

| Brand | Aleddra EasiRetrofit™ T8 | Philips EnduraLED T8 | Sylvania Commercial Grade LED T8 |
|------------------------------|--|---|---|
| Driver type | Internal driver (self-ballasted) | Internal driver (self-ballasted) | Internal driver (self-ballasted) |
| Wiring |  |  |  |
| Retrofit steps | <ol style="list-style-type: none"> 1. Remove fluorescent tube 2. Bypass ballast 3. Install LED T8 (using the original lamp holders) | <ol style="list-style-type: none"> 1. Remove fluorescent tube 2. Bypass ballast 3. If shunted lamp holders, replace lamp holders with non-shunted lamp holders 4. Rewire input leads to lamp holders 5. Install LED T8 | <ol style="list-style-type: none"> 1. Remove fluorescent tube 2. Bypass ballast 3. If shunted lamp holders, replace lamp holders with non-shunted lamp holders 4. Rewire input leads to lamp holders 5. Install LED T8 |
| Lamp holders | Compatible with shunted and non-shunted lamp holders. No need to change out. | Compatible only with non-shunted lamp holders. Shunted lamp holders must be replaced. | Compatible only with non-shunted lamp holders. Shunted lamp holders must be replaced. |
| 3-lamp fixture retrofit time | Approx. 10 minutes | Approx. 20-30 minutes | Approx. 20-30 minutes |
| Warranty | 5-year | 5-year | 5-year |
| UL class | UL1598C | UL1598C | UL1598C |

Since Aleddra EasiRetrofit™ LED tube can be used in fixtures with both shunted and non-shunted lamp holders without much rewiring, it results in potential savings of 50 to 70% in installation time when compared to other leading LED tubes. To find out how Aleddra can help you with your energy efficient lighting retrofit projects, contact your local distributors or Aleddra at 425-430-4555, or email us at sales@aleddra.com.