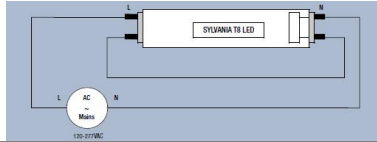


Comparison of Energy Efficient LED T8 Lamps

If you are ever confused about the various LED T8 lamps on the market, you are not alone. The short comparison below will give you a quick cheat-sheet when making purchasing decision for your energy efficient lighting project:

Category	Pros	Cons
Double-ended T8 w/ internal driver & double-safety switch	<ul style="list-style-type: none"> • A stand-alone lamp • Minimal re-wiring, easy installation • Used with either shunted or non-shunted lampholders • Save 50-70% installation labor • Single SKU for spare lamps • Lowest total cost of ownership • No electric shock hazards; UL 1598C classified 	<ul style="list-style-type: none"> • None
Double-ended T8 w/ internal driver & no safety switch	<ul style="list-style-type: none"> • A stand-alone lamp • Minimal re-wiring, easy installation • Support both shunted and non-shunted lampholders • Save 50-70% installation labor 	<ul style="list-style-type: none"> • Electric shock hazards; UL prohibited
Other double-ended T8 w/ internal driver	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Require non-shunted lamp holders • Need extra jumper wire to connect the two ends of the fixture • Long installation time and high labor cost • Possible electric shock
Single-ended T8 w/ internal driver	<ul style="list-style-type: none"> • A stand-alone lamp • Slightly lower per-lamp cost • Suitable for new fixture prewired for single-ended LED T8 	<ul style="list-style-type: none"> • Require non-shunted lamp holders • Extra installation time and labor
LED T8 w/ external driver	<ul style="list-style-type: none"> • No need to replace a lamp when driver fails 	<ul style="list-style-type: none"> • Not a stand-alone lamp; need an external driver to operate • Need to remove ballast • Extra time needed to install the external driver • When the driver fails, the entire fixture is out of service • Require certified electrician to replace the external driver • Complicated wiring for 2/3/4-lamp configuration • Multiple SKU's in inventory for external drivers
Double-ended T8 w/ internal driver that uses existing ballast	<ul style="list-style-type: none"> • Easy installation, no rewiring at all • No shock hazards during installation 	<ul style="list-style-type: none"> • Not qualified for utility rebate because older ballast draws power during off state • When the ballast fails, the entire fixture is out of service • A failed ballast can create confusion for the end user on whether the LED T8

		failed or the ballast failed <ul style="list-style-type: none">• The lamp's operation depends on the existing ballast with unknown life-time• Require certified electrician to replace the ballast• Consume 26 watts per-lamp as compared to 18W LED T8 lamp
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To maximize your ROI (return on investment) for your T8/T12 fluorescent tube retrofit, Aledra **EasiRetrofit**® LED T8 tubes are the clear choice for safety, ease of installation, and a better ROI. It offers simple double-ended wiring, UL 1598C classification, 5-year warranty, and more importantly the patented Double-Safety Switch (DSS) design that provides adequate protection for the installer. To get the most out of your energy efficient lighting project, contact us at +1-425-430-4555 or sales@aleddra.com.