










LINEAR LED RETROFIT LAMPS SELECTION GUIDE

Choosing from massive LED tubes with various electrical constructions and from different manufactures could be a puzzle work. Understanding the different types of LED tubes out there and what are the benefits and drawbacks of each type is key for making the right lighting decisions for your re-lamping project.

LINEAR LED RETROFIT LAMP ABCs

			
	  COMPATIBLE	  UNIVERSAL	  EXTERNAL
UL Types	DIRect UL Type A	BYPass UL Type B	EXTernal UL Type C
Operation	Works with most fluorescent ballasts	Designed to run off line voltage power	Utilizes an external driver in place of a ballast
Advantages	Simple install and low up front cost	Ballasts are eliminated	Enables 0-10V control, sockets remain supplied with low voltage power
Cost	Lamp	\$	\$\$\$
	Installation	\$	\$\$
	Operation	\$\$\$	\$
	Maintenance	\$\$\$	\$
Convenience	Installation	★ ★ ★	★ ☆ ☆
	Maintenance	★ ★ ☆	★ ★ ★
Performance	Compatibility	★ ★ ☆	★ ★ ★
	Reliability	★ ★ ☆	★ ★ ★
	Control Flexibility	★ ★ ☆	★ ☆ ☆
	System Efficacy	★ ☆ ☆	★ ★ ☆

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Category	Direct	Single Ended Bypass	Double Ended Bypass	Universal Ended Bypass	Single Voltage External Driver	SelectDrive External Driver
Application	Retail	★ ★ ☆	★ ★ ★	★ ★ ☆	★ ★ ☆	★ ★ ☆
	Education	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆
	Industrial	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆
	Hospitality	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆
	Office	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆	★ ★ ☆
Special Features	Dim To Off					✓
	NSF Listed Options	✓	✓	✓	✓	✓
	SelectKelvin Technology 			✓	✓	✓
	SelectDrive Technology 			✓		✓
	Flicker Free				✓	✓

Note: Visit www.greencreative.com for details of products specifications, installation guides, limited warranty terms, and full dimmer / ballast / emergency ballast compatibility list. Optional 10 year limited warranty based on a maximum of 4,368 annual operating hours (per year for ten years) and exposure to a maximum fixture operating temperature of 80°F / 27°C.