



## Commercial Double-Ended Ballast Bypass Series LED Tube

### LINEAR FLUORESCENT RETROFIT LAMP

For: T8 and T12 lamp replacement

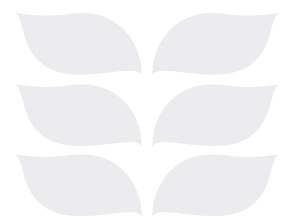
The Energy Focus Commercial Double-Ended Ballast Bypass LED tube (DEBB) features a direct-wire installation mode and allows existing tombstones (shunted or unshunted) to be utilized, providing customers with significant savings by reducing the average retrofit installation time. The Commercial DEBB does not depend on any ballast to function normally, minimizing points of failure and requiring less maintenance. The Commercial DEBB reaffirms Energy Focus' commitment to producing products that are high quality, long-lasting and sustainable.

### FEATURES AND BENEFITS

- 145 lm/W efficacy
- Integrated driver, Type-B (Direct-Wire)
- Can utilize existing lamp holders
- Double-ended input for simple rewiring and shorter install time
- Bypasses ballast for maximum energy savings
- Flicker-free LED lighting

### PRODUCT SPECIFICATIONS

Length	4' version - Meets ANSI Standard
Body	Oval extruded aluminum
Lens	Polycarbonate lens
Connection	Medium bi-pin (G13) end cap
Input Voltage	100-277vac, 50/60hz
Driver	Internal Driver/Line Voltage
Available colors	4000K
CRI	>80
Dimming	Non-dimmable
Lifetime	L70 - 60,000 hours
Warranty	10-year warranty
Environmental Requirements	<b>Operating temp:</b> -20° to 45°C <b>Storage temp:</b> -30° to 60°C <b>Working humidity:</b> 30% to 85% <b>Storage humidity:</b> 10% to 90% <b>Non-corrosive environments</b>
Power Factor	>0.9
Beam Angle	140°

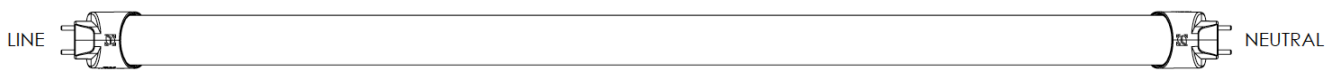


## PRODUCT SPECIFICATION

PART NUMBER	SIZE	NOMINAL POWER	LUMINOUS FLUX
LEDFLT8-840-412-AL-BB	(48") 4'	12W	1740lm

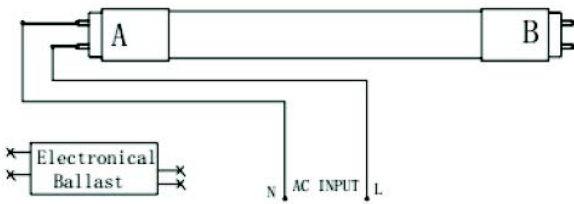
## LINE DIAGRAM

Double-Ended Input

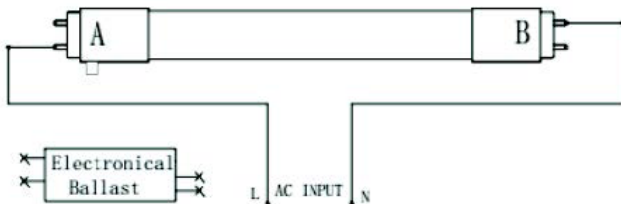


## WIRING DIAGRAM

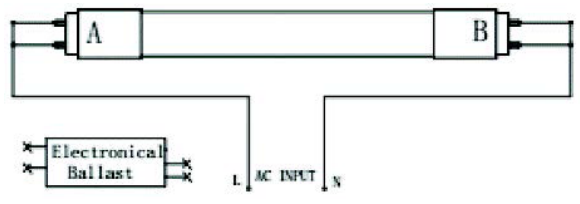
Case 1: Direct AC wiring diagram without dimming



OR



OR



OR

