

Project Name:	Notes:	Date:	Type:
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**HYBRID**

Portor's 4' T8 Hybrid (A+B) tube is designed to work with or without traditional electrical ballasts. Our Hybrid tubes are constructed to be single-ended or double-ended, so customers don't need to worry about existing wiring schemes.

Available in 4' and featuring color selectable technology that lets the user choose between 3000K, 4000K, or 5000K.

Ideal use for office spaces, warehouses, hotels, restaurants, and schools.



**CONSTRUCTION**

High-quality glass lens diffuser with PET coating (shatter-proof).  
100% Mercury Free and 100% Lead Free.

**ELECTRICAL**

Hybrid Type A (with ballast) + Type B (ballast removal) AC line input.  
Luminaire is built with the highest quality 120- 277V internal drivers.

**RETROFIT EASILY**

Plug-n-play or by-pass the ballast with our easy 4' LED T8 tube retrofit. Our Hybrid produces uniform light output that is consistent from end-to-end.  
Direct replacement of 32W-T8 4ft fluorescent lamp.

**DIMMING**

Dimmable, 0-10V dimming.

**LISTING**

UL Listed, DLC Listed, NSF, FCC, RoHS

WATTAGE	DELIVERED LUMENS	EFFICACY
18W	2200 @ 3000K	122 lm/W
	2300 @ 4000K	127 lm/W
	2300 @ 5000K	127 lm/W

**TECHNICAL SPECIFICATION**

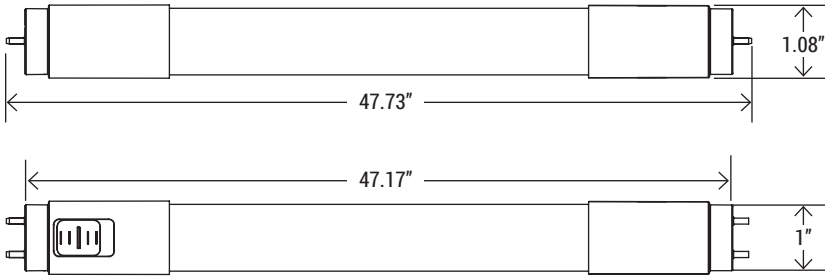
WATTAGE	18W
VOLTAGE	120V-277V, 50/60 Hz
END CAP	G13
CCT	<b>3000K/4000K/5000K</b>
CRI	83
BEAM ANGLE/BEAM SPREAD	200°/ 320°
LENS TYPE	Glass Lens/Frosted
WORKING TEMP.	-4°F ~ 113°F
STORAGE TEMP.	-4°F ~ 140°F
IP RATING	IP40 Suitable for damp locations
DIMMABLE	0-10V dimming
POWER FACTOR	>0.9
LIFETIME	50,000 hours
WARRANTY	5 year limited



MODEL#	WATTS	LUMENS	LM/WATT	CCT
<b>PT-T8-4FAB2-18W-3CCT</b>	18W	up to 2300	up to 127 lm/W	<b>3CCT</b> (3000K/4000K/5000K)

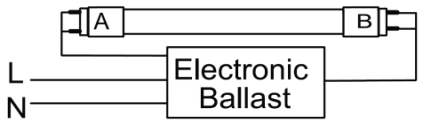
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**DIMENSION**



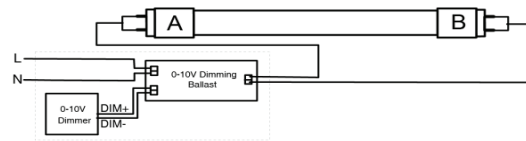
**INSTALLATION DIAGRAM**

**TYPE A** (Ballast compatible) - Assembly introduction:



Ballast compatible(Type A)

OR



**Input Voltage: Base on the ballast**

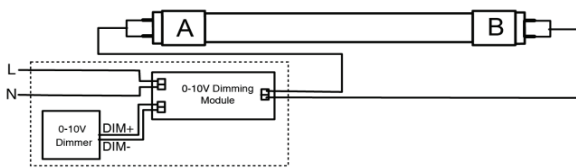
**TYPE B** (AC directly, double end or single end ballast bypass) - Assembly introduction:

**Case 1: Direct AC wiring diagram without dimming**



**Voltage Input AC120-277V 50/60Hz**

**Case 2: Direct AC wiring diagram with 0-10V dimming system**



0-10V Dimming System

1. Switch off power
2. Remove fluorescent tube
3. Follow wiring instructions
4. Install LED tube
5. Switch on power

**Voltage Input AC120-277V 50/60Hz**