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|---------------|--------|-------|-------|
| Project Name: | Notes: | Date: | Type: |
|---------------|--------|-------|-------|

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.

**HYBRID**



**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**

0-10V dimmable.

**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**

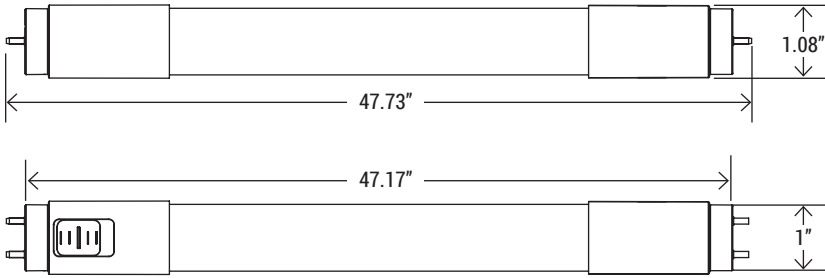
|                        |                                  |
|------------------------|----------------------------------|
| WATTAGE                | 18W                              |
| VOLTAGE                | 120V-277V, 50/60 Hz              |
| END CAP                | G13                              |
| 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 dimmable                   |
| 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) |

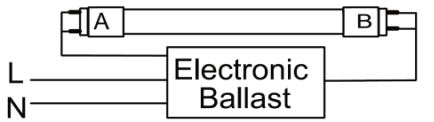
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**DIMENSION**



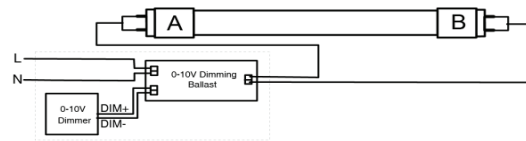
**INSTALLATION DIAGRAM**

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



Ballast compatible (Type A)

OR



**Input Voltage: Base on the ballast**

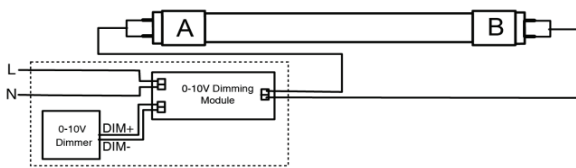
**TYPE B** (AC directly, double end or single end ballast bypass) - Assembly introduction:

**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**