



**2017 catalog of LED T8 glass tubes, energy efficient replacement for T8 fluorescent tubes, plug-and-play, by-pass solutions**

**Our LED T8 tubes can lower electric bill up to 85%**



**an industry leader in providing the market with innovative, energy efficient SSL, money saving LED lights.**

**All our LED Lights are Environmentally friendly  
Have No Infrared or UV radiation**

**Our LED T8 tubes have an average life of 10-20 times longer than fluorescent T8 tubes**

**Less pulsation/flicker, that makes light environment more safe for children and adults**

**Suitable for DIRECT or BY-PASS replacement of fluorescent T8 tubes**

## Glass LED T8 tubes **Direct replacement**

- **Highest efficiency on market – up to 137.5 Lm/w**
- **Plug and play solution**
- **Direct replacement**, fast install
- **No rewiring** of fixture
- **No removal** of ballast in fixture
- LED T8 tubes, **all glass**
- Glass tubes **never get yellow**
- Glass tubes **never bend** over time
- Save up to **65%** compare to fluorescent tubes
- Special sizes **2,3,4,5,6,8 Foot, U2F** available
- Special ends - **R17D, FA8** available
- **Shatter proof** coating available
- All these LED T8 tubes work with **shunted** holders
- **NO certified electrician required**

# All glass LED T8 Tube, 2 foot, 9.0 W, 1150 Lm, 4000K, direct replacement for 18.0 Watt fluorescent T8 tube, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ **LED replacement of T8 fluorescent tube**
- ✓ **Saves money** - up to **65%** compared to T8 Fluorescent
- ✓ **Same weight as T8 fluorescent tube** - **no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More work hours** - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Low** Pulsation light – **Less** eye fatigue, less stress
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains



## Ordering Code:

**AZSL-T8-GL-DR-2F-9.0-1150-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
 Replacement type: **Direct replacement**  
 Compatibility: **Electronic ballasts**  
 Size: **2 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**

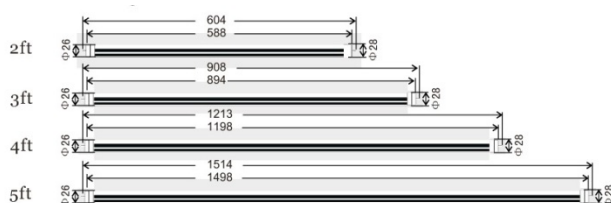
## Light Technical Characteristics:

Lumen output (Lm) : **1,150**  
 Lumen/Watt (Lm/W) : Up to **137,5**  
 Color Temperature (K): **4000**  
 Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **9.0**  
 Voltage: Depends on ballast  
 Frequency: 50-60 Hz  
 Power Factor: Depends on ballast  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s

- Suitable for outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
 Diameter (W): 1.00"/26mm  
 Weight : 3.0 ounce/100gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# All glass LED T8 Tube **2 foot, 9.0 W, 1150 Lm**, 5000K, 18.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-2F-9.0-1150-5,0K-M-UL-DLC**

## General Characteristics:

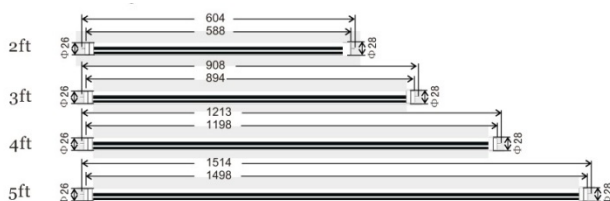
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **2 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,150**  
Lumen/Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **9.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
Diameter (W): 1.00"/26mm  
Weight : 3.0 ounce/100gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass LED T8 Tube **3 foot, 11.0W, 1450 Lm, 4000K,** 28.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-3F-11.0-1450-4,0K-M-UL-DLC**

## General Characteristics:

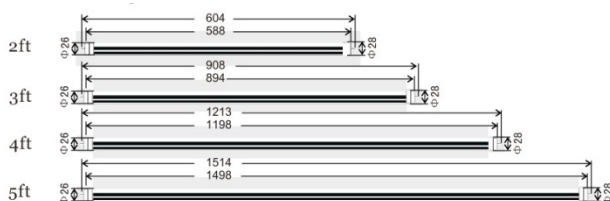
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **3 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,450**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **11.0**  
Voltage: Depends of ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 36.0"/900mm  
Diameter (W): 1.00"/26mm  
Weight : 4.0 ounce/130gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass LED T8 Tube **3 foot, 11.0W, 1450 Lm, 5000K,** 28.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-3F-11.0-1450-5,0K-M-UL-DLC**

## General Characteristics:

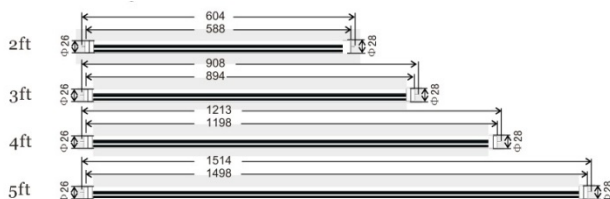
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **3 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,450**  
Lumen/Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **11.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 36.0"/900mm  
Diameter (W): 1.00"/26mm  
Weight : 4.0 ounce/130gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super LED T8 Tube 4 ft, 12W, 1650Lm, 4000K,** 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-4F-12.0-1650-4,0K-M-UL-DLC**

## General Characteristics:

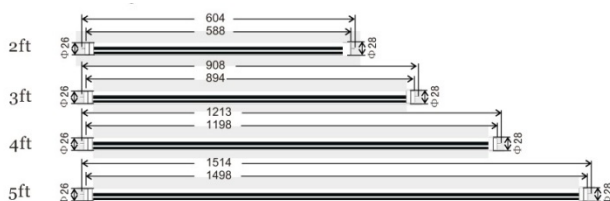
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,650**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.



# All glass **Super** LED T8 Tube **4 ft, 12W, 1650Lm, 5000K,** 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-4F-12.0-1650-5,0K-M-UL-DLC**

## General Characteristics:

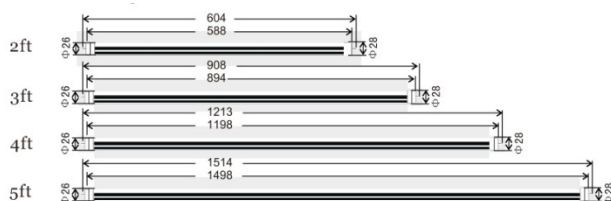
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,650**  
Lumen/Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

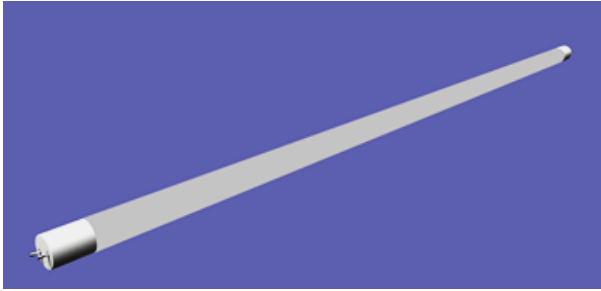
- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.



# All glass Super LED T8 Tube **4 ft, 14W, 1800 Lm, 4000K,** 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-4F-14.0-1800-4,0K-M-UL-DLC**

## General Characteristics:

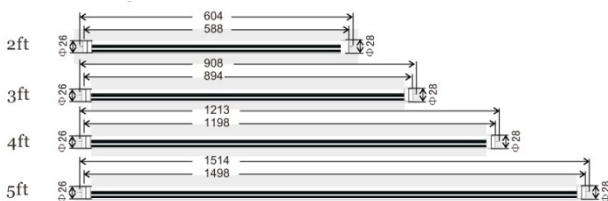
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,800**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **14.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass Super LED T8 Tube **4 ft, 14W, 1800 Lm, 5000K,** 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-4F-14.0-1800-5,0K-M-UL-DLC**

## General Characteristics:

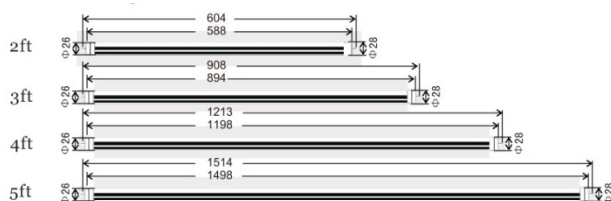
Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,800**  
Lumen/Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **14.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **4 ft, 17W, 2200 Lm, 4000K,** 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ *Same weight* T8 fluorescent tube - *no extra support*
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ Less load on electrical grid, less maintains

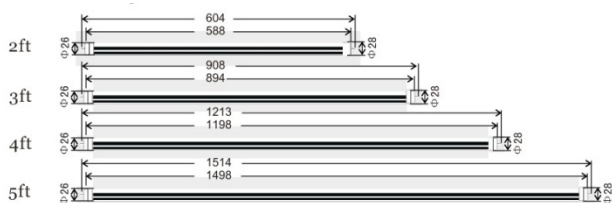


## Ordering Code:

**AZSL-T8-GL-DR-4F-17.0-2200-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **17.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass Super LED T8 Tube 4 ft, 17W, 2200 Lm, 5000K, 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-4F-17.0-2200-5,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
 Replacement type: **Direct replacement**  
 Compatibility: **Electronic ballasts**  
 Size: **4 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**

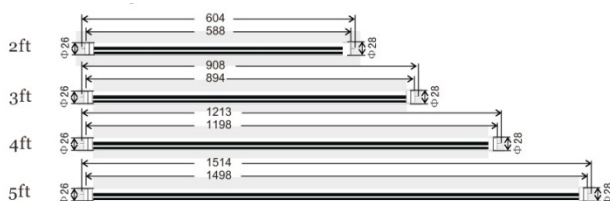
## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
 Lumen/Watt (Lm/W) : Up to **137.5**  
 Color Temperature (K): **5000**  
 Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **17.0**  
 Voltage: Depends on ballast  
 Frequency: 50-60 Hz  
 Power Factor: Depends on ballast  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
 Diameter (W): 1.00"/26mm  
 Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# All glass **Super LED T8 Tube 8 ft, 28W, 3500 Lm, 4000K,** 80.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - 50,000 Hours Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. RoHS certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

**AZSL-T8-GL-DR-8F-28.0-3500-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **8 foot**  
Glass: **Milky**  
Cap base: **G13 or FA8 single pin**  
Rated avg. life: > **50,000 hours**



## Light Technical Characteristics:

Lumen output (Lm) : **3,500**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **28.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

## Tube dimensions:

Overall Length (H): 96.0"/2400mm  
Diameter (W): 1.00"/26mm  
Weight : 12.0 ounce/390gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass Super LED T8 Tube 8 ft, 28W, 3500 Lm, 5000K, 80.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - 50,000 Hours Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. RoHS certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains



## Ordering Code:

AZSL-T8-GL-DR-8F-28.0-3500-5,0K-M-UL-DLC

## General Characteristics:

Tube type: LED T8 all glass  
Replacement type: Direct replacement  
Compatibility: Electronic ballasts  
Size: 8 foot  
Glass: Milky  
Cap base: G13 or FA8 single pin  
Rated avg. life: > 50,000 hours

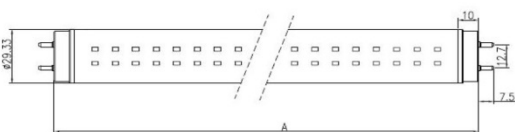


## Light Technical Characteristics:

Lumen output (Lm) : 3,500  
Lumen/Watt (Lm/W) : Up to 137.5  
Color Temperature (K): 5000  
Beam Angle (Degree): 330

## Electrical Characteristics:

Power consumption (Watt): 28.0  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 96.0"/2400mm  
Diameter (W): 1.00"/26mm  
Weight : 12.0 ounce/390gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

Most efficient T8 LED on the market

Shatter proof coating is available

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



# Glass U Bent LED T8 Tube 2 ft, 12W, 1650Lm, 4000K, 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. **RoHS** certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains

## Ordering Code:

**AZSL-T8U-GL-DR-2F-12.0-1650-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **U shape LED T8 glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

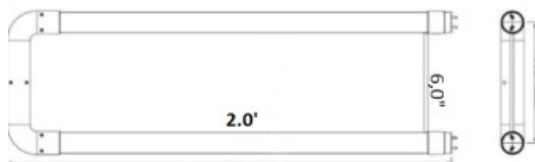
## Light Technical Characteristics:

Lumen output (Lm) : **1,650**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
Diameter (W): 1.00"/26mm  
Weight : 8.0 ounce/250gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# Glass U Bent LED T8 Tube 2 ft, 12W, 1650Lm, 5000K, 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - 50,000 Hours Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. RoHS certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains

## Ordering Code:

AZSL-T8U-GL-DR-2F-12.0-1650-5,0K-M-UL-DLC

## General Characteristics:

Tube type: **U shape LED T8 glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

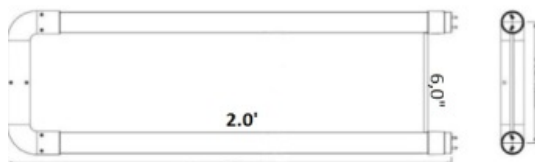
## Light Technical Characteristics:

Lumen output (Lm) : **1,650**  
Lumen/Watt (Lm/W) : Up to **137.5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
Diameter (W): 1.00"/26mm  
Weight : 8.0 ounce/250gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# Glass U Bent LED T8 Tube 2 ft, 17W, 2200Lm, 4000K, 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - 50,000 Hours Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. RoHS certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains

## Ordering Code:

AZSL-T8U-GL-DR-2F-17.0-2200-4,0K-M-UL-DLC

## General Characteristics:

Tube type: **U shape LED T8 glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

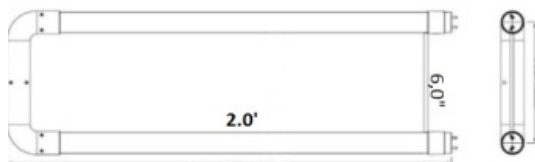
## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **17.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
Diameter (W): 1.00"/26mm  
Weight : 8.0 ounce/250gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# Glass U Bent LED T8 Tube 2 ft, 17W, 2200Lm, 5000K, 32.0 Watt fluorescent T8 tube direct replacement, NO NEED to rewire ballast. Plug-and-play solution

## Features and Benefits:

- ✓ LED replacement of T8 fluorescent tube
- ✓ Saves money - up to 65% compared to T8 Fluorescent
- ✓ Same weight T8 fluorescent tube - no extra support
- ✓ Very small amount of heat generated
- ✓ More work hours - 50,000 Hours Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ Low Pulsation light – Less eye fatigue, less stress
- ✓ Free from Ultraviolet and Infrared radiation
- ✓ Free from Mercury and Lead. RoHS certified
- ✓ More On/Off Switching cycles - 20000X+
- ✓ Instant-On with full light output
- ✓ Less load on electrical grid, less maintains

## Ordering Code:

AZSL-T8U-GL-DR-2F-17.0-2200-5,0K-M-UL-DLC

## General Characteristics:

Tube type: **U shape LED T8 glass**  
Replacement type: **Direct replacement**  
Compatibility: **Electronic ballasts**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

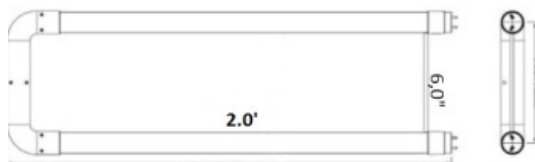
## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **17.0**  
Voltage: Depends on ballast  
Frequency: 50-60 Hz  
Power Factor: Depends on ballast  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
Diameter (W): 1.00"/26mm  
Weight : 8.0 ounce/250gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

# LED T8 tubes ***By-pass series***

- LED T8 tubes ***by-pass***, all glass
- ***Highest efficiency on market – up to 137,5 Lm/w***
- ***Most Energy Saving solution***
- Need to rewire fixtures
- Need to remove ballasts
- LED T8 tubes, ***all glass***
- Glass tubes ***never gets yellowish***
- Glass tubes ***never gets bended*** over time
- Savings up to ***85%*** from fluorescent T8 tubes
- Special sizes **2,3,4,5,6,8 Foot, U2F** available
- Special ends - **R17D, FA8** available
- **Shatter proof** coating available
- ***Certified electrician is required for retrofit***

## All glass LED T8 Tube 2 foot, 9 Watt, 1150 Lm, 4000K, 18 Watt fluorescent T8 tube By-pass replacement, NEED to rewire ballast.

### Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More work hours - 50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More On/Off Switching cycles** - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

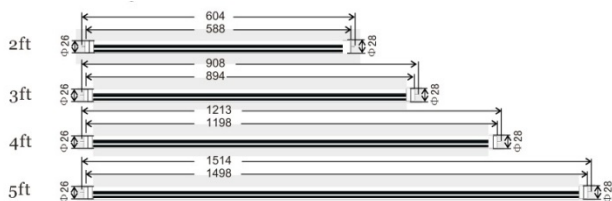


### Ordering Code:

**AZSL-T8-GL-BYP-2F-9.0-1150-4,0K-M-UL-DLC**

### General Characteristics:

Tube type: **LED T8 All glass**  
 Replacement type: **By-pass replacement**  
 Compatibility: **120/277 AC direct to grid**  
 Size: **2 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**



### Tube dimensions:

Overall Length (H): 24.0"/600mm  
 Diameter (W): 1.00"/26mm  
 Weight : 3.0 ounce/100gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

### Light Technical Characteristics:

Lumen output (Lm) : **1,150**  
 Lumen /Watt (Lm/W) : Up to **137,5**  
 Color Temperature (K): **4000**  
 Beam Angle (Degree): **330**

### Electrical Characteristics:

Power consumption (Watt): **9.0**  
 Voltage: **120/277 AC** direct to grid  
 Frequency: 50-60 Hz  
 Power Factor: > 0.9  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.



# All glass LED T8 Tube 2 foot, 9 Watt, 1150 Lm, 5000K, 18 Watt fluorescent T8 tube By-pass replacement, NEED to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains



Ordering Code:

**AZSL-T8-GL-BYP-2F-9.0-1150-5,0K-M-UL-DLC**

## General Characteristics:

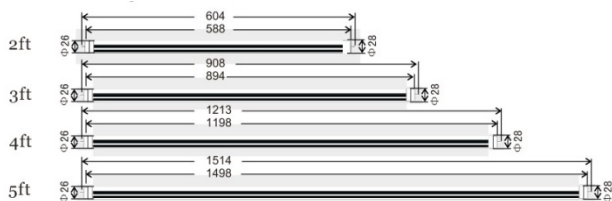
Tube type: **LED T8 all glass**  
 Replacement type: **By-pass replacement**  
 Compatibility: **120/277 AC direct to grid**  
 Size: **2 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **1,150**  
 Lumen /Watt (Lm/W) : Up to **137,5**  
 Color Temperature (K): **5000**  
 Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **9.0**  
 Voltage: 120/277 AC direct to grid  
 Frequency: 50-60 Hz  
 Power Factor: > 0.9  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s



## Tube dimensions:

Overall Length (H): 24.0"/600mm  
 Diameter (W): 1.00"/26mm  
 Weight : 3.0 ounce/100gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass LED T8 Tube 3 foot, 12.0 W, 1450 Lm, 4000K, 28.0 Watt fluorescent T8 tube By-pass replacement, NEED to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More work hours - 50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More On/Off Switching cycles** - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

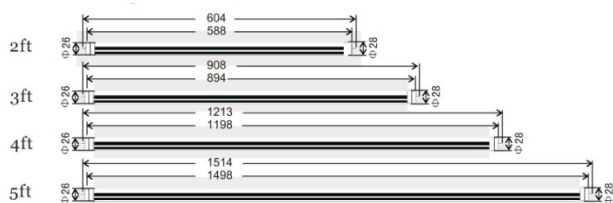


## Ordering Code:

**AZSL-T8-GL-BYP-3F-12.0-1450-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
 Replacement type: **By-pass replacement**  
 Compatibility: **120/277 AC direct to grid**  
 Size: **3 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 36.0"/900mm  
 Diameter (W): 1.00"/26mm  
 Weight : 4.0 ounce/130gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **1,450**  
 Lumen /Watt (Lm/W) : Up to **137,5**  
 Color Temperature (K): **4000**  
 Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
 Voltage: **120/277 AC**  
 Frequency: 50-60 Hz  
 Power Factor: >0.9  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass LED T8 Tube 3 foot, 12.0 W, 1450 Lm, 5000K, 28.0 Watt fluorescent T8 tube By-pass replacement, NEED to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

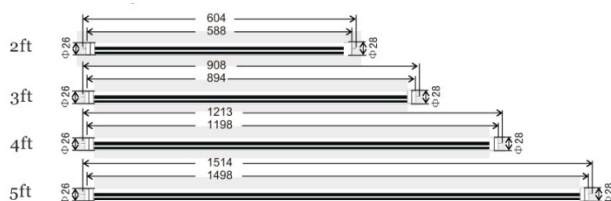


## Ordering Code:

**AZSL-T8-GL-BYP-3F-12.0-1450-5,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
 Replacement type: **By-pass replacement**  
 Compatibility: **120/277 AC direct to grid**  
 Size: **3 foot**  
 Glass: **Milky**  
 Cap base: **G13**  
 Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 36.0"/900mm  
 Diameter (W): 1.00"/26mm  
 Weight : 4.0 ounce/130gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **1,450**  
 Lumen /Watt (Lm/W) : Up to **137,5**  
 Color Temperature (K): **5000**  
 Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **12.0**  
 Voltage: **120/277 AC**  
 Frequency: 50-60 Hz  
 Power Factor: >0.9  
 Dimmable: Available as an Option  
 Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **4 ft, 15W, 1800 Lm, 4000K,** 32.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

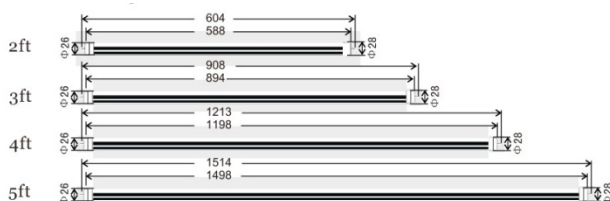


## Ordering Code:

**AZSL-T8-GL-BYP-4F-15.0-1800-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: ***By-pass replacement***  
Compatibility: **120/277 AC direct to grid**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **1,800**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **15.0**  
Voltage: **120/277 AC**  
Frequency: 50-60 Hz  
Power Factor: >0.9  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **4 ft, 15W, 1800 Lm, 5000K,** 32.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

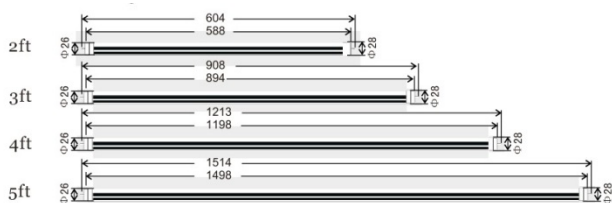


## Ordering Code:

**AZSL-T8-GL-BYP-4F-15.0-1800-5,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: ***By-pass replacement***  
Compatibility: **120/277 AC direct to grid**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **1,800**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **15.0**  
Voltage: **120/277 AC**  
Frequency: 50-60 Hz  
Power Factor: >0.9  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **4 ft, 18W, 2200 Lm, 4000K,** 32.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains

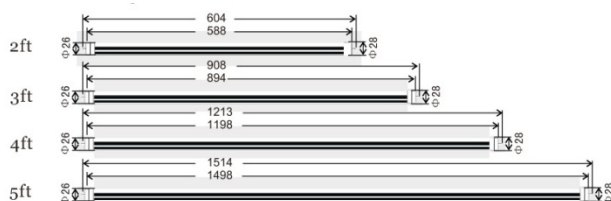


## Ordering Code:

**AZSL-T8-GL-BYP-4F-18.0-2200-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: ***By-pass replacement***  
Compatibility: **120/277 AC direct to grid**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**



## Tube dimensions:

Overall Length (H): 48.0"/1200mm  
Diameter (W): 1.00"/26mm  
Weight : 6.0 ounce/190gr

Working Temp : - 22 F/+105 F, - 30 C/+40 C

## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **18.0**  
Voltage: **120/277 AC**  
Frequency: 50-60 Hz  
Power Factor: >0.9  
Dimmable: Available as an Option  
Starting Time: Less than 1.0 s

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaires
- Before replacing, **turn off power** to avoid electrical shock or burn.



# All glass **Super** LED T8 Tube **4 ft, 18W, 2200 Lm, 5000K,** 32.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains



## Ordering Code:

**AZSL-T8-GL-BYP-4F-18.0-2200-5,0K-M-UL-DLC**

## General Characteristics:

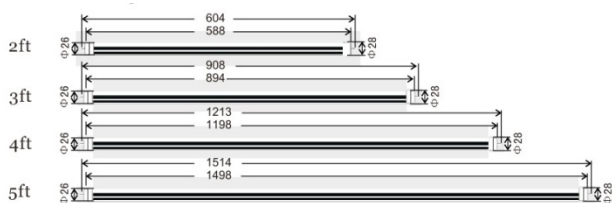
Tube type: **LED T8 All glass**  
Replacement type: ***By-pass replacement***  
Compatibility: **120/277 AC direct to grid**  
Size: **4 foot**  
Glass: **Milky**  
Cap base: **G13**  
Rated avg. life: > **50,000 hours**

## Light Technical Characteristics:

Lumen output (Lm) : **2,200**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **18.0**  
Voltage: **120/277 AC**  
Frequency: **50-60 Hz**  
Power Factor: **>0.9**  
Dimmable: **Available as an Option**  
Starting Time: **Less than 1.0 s**



## Tube dimensions:

Overall Length (H): **48.0"/1200mm**  
Diameter (W): **1.00"/26mm**  
Weight : **6.0 ounce/190gr**

Working Temp : **- 22 F/+105 F, - 30 C/+40 C**

**Most efficient T8 LED on the market**

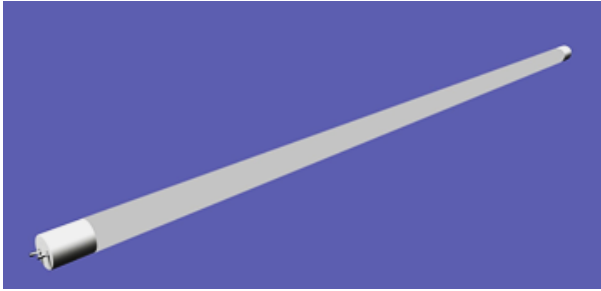
**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **8 ft, 28W, 3500 Lm, 4000K,** 80.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains



## Ordering Code:

**AZSL-T8-GL-BYP-8F-28.0-3500-4,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: ***By-pass replacement***  
Compatibility: **120/277 AC directly to grid** Size:  
**8 foot**  
Glass: **Milky**  
Cap base: **G13 or FA8 single pin**  
Rated avg. life: > **50,000 hours**



## Light Technical Characteristics:

Lumen output (Lm) : **3,500**  
Lumen /Watt (Lm/W) : **Up to 137,5**  
Color Temperature (K): **4000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **28.0**  
Voltage: **120/277 AC direct to grid**  
Frequency: **50-60 Hz**  
Power Factor: **>0.9**  
Dimmable: **Available as an Option**  
Starting Time: **Less than 1.0 s**

## Tube dimensions:

Overall Length (H): **96.0"/2400mm**  
Diameter (W): **1.00"/26mm**  
Weight : **12.0 ounce/390gr**

Working Temp : **- 22 F/+105 F, - 30 C/+40 C**

**Most efficient T8 LED on the market**

**Shatter proof coating is available**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.

# All glass **Super** LED T8 Tube **8 ft, 28W, 3500 Lm, 5000K,** 80.0 Watt fluorescent T8 tube **By-pass replacement,** **NEED** to rewire ballast.

## Features and Benefits:

- ✓ **LED replacement** of T8 fluorescent tube
- ✓ **1 end AC input**, requires rewiring
- ✓ **Saves money - up to 85% compared to T8 Fluorescent**
- ✓ **Same weight T8 fluorescent tube - no extra support**
- ✓ **Very small** amount of heat generated
- ✓ **More** work hours - **50,000 Hours** Average Life time
- ✓ (Compared to T8 fluorescent tube: 10,000-20,000 h)
- ✓ **Free** from Ultraviolet and Infrared radiation
- ✓ **Free** from Mercury and Lead. **RoHS** certified
- ✓ **More** On/Off Switching cycles - 20000X+
- ✓ **Instant-On** with full light output
- ✓ **Less load** on electrical grid, **less** maintains



## Ordering Code:

**AZSL-T8-GL-BYP-8F-28.0-3500-5,0K-M-UL-DLC**

## General Characteristics:

Tube type: **LED T8 all glass**  
Replacement type: ***By-pass* replacement**  
Compatibility: **Electronic ballasts**  
Size: **8 foot**  
Glass: **Milky**  
Cap base: **G13 or FA8 single pin**  
Rated avg. life: > **50,000 hours**

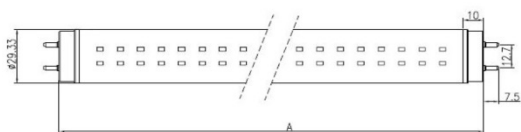
## Light Technical Characteristics:

Lumen output (Lm) : **3,500**  
Lumen /Watt (Lm/W) : Up to **137,5**  
Color Temperature (K): **5000**  
Beam Angle (Degree): **330**

## Electrical Characteristics:

Power consumption (Watt): **28.0**  
Voltage: **120/277 AC**  
Frequency: **50-60 Hz**  
Power Factor: **> 0.9**  
Dimmable: **Available as an Option**  
Starting Time: **Less than 1.0 s**

- For use in outdoor fixtures, cold start
- Rated for wet or damp locations
- For use in totally enclosed luminaries
- Before replacing, **turn off power** to avoid electrical shock or burn.



## Tube dimensions:

Overall Length (H): **96.0"/2400mm**  
Diameter (W): **1.00"/26mm**  
Weight : **12.0 ounce/390gr**

Working Temp : **- 22 F/+105 F, - 30 C/+40 C**

**Most efficient T8 LED on the market**

**Shatter proof coating is available**



***Catalog of All glass LED T8 tubes  
that are 100% replacement  
of fluorescent T8 tubes***

Our Led T8 tubes could lower electric bill up to 85%



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