

LED T8 Replacement Bulbs

Today's Better Choice

Fluorescent T8 tube life: 10,000 hours
 Tubes required over 6.25 years for single fixture: 15
 Fluorescent tube cost at \$3.00 x 15 bulbs: \$45.00
 Bulbs are 32watts x 3 bulbs: 96 watts
 1KWH from EERE (US Department of Energy) cost: .13 cents
 2.3kWh x .13 cents = .30 cents per day
 .30 cents x 365 days in a year = \$109.50 per year
 \$109.50 x 6.25 years= **684.38** per 3 bulb fixture

Ballast replacement life 14,000 hours
 Ballast cost is \$25.00 each x 4= \$100
 Labor to change 4 ballast= \$200
 Lens replacement (\$8.00)
 Cost to dispose of Fluorescent lamps:
 T8x.15 = 60 cents x 15= \$9.00
 Labor to change 15 lamps @ 20.00 per year x 6.25 years = \$125
 Associated Cost: **\$442.00**

Total T8 Fluorescent Fixture Cost
Over 6.25 Year Period = \$1171.38

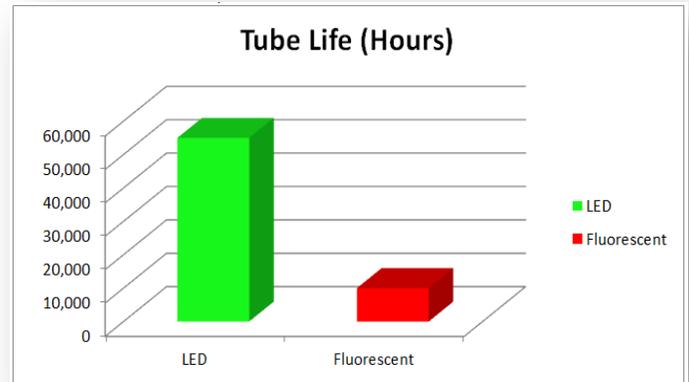
LED T8 tube life: 55,000
 Tubes required over 6.25 year for single fixture: 3
 LED Cost at \$50 x 3 units = \$150.00
 Bulb are 18watts x 3 = 54watts
 1KWH from EERE cost: .13 cents
 54 watts x 24hours = 1296 watts divided by 1000 = 1.29
 1.29 kWh x .16 cents= .20 cent per day
 20 cents x 365 days in a year= \$73.00 per year
 \$73.00 x 6.25 years = \$456.25 per 3 bulb fixtures

Total T8 LED fixture Cost
Over 6.25 Year Period= \$606.25

Per fluorescent light cost= \$1171.38 / 3 = \$390.46
 At 500 fluorescent at 6.25 years = \$390.46 x 500 = **\$195,230.00**

Per LED T8 fixture cost= \$561.25 / 3 = \$202.08
 At 500 LED T8 fixtures at 6.25 years= **\$101,041.67**

Savings from switching to LED T8 = \$195,230.00- \$101,041.67 = \$94,188.33
Savings saved annually with LED T8 fixtures= \$15,070.13



Why choose LED?		
	LED	Fluorescent
Heat output	These bulbs do not cause heat build-up.	Temperature can be up to 2 degrees warmer under fluorescent tubes.
Efficiency	More efficient than both fluorescent and incandescent tubes.	Four to six times more efficient than incandescent bulbs, but less efficient than LED tubes. They also require a ballast to power.
Comfort	More ergonomic than fluorescent tubes.	Not ergonomic: light is drab and all bulbs flicker (though not always visible to the human eye).
Material	Does not contain hazardous metals like mercury.	Does contain mercury and phosphor.

