

LED T8 Replacement Bulbs

Today's Better Choice

LEDs are solid-state devices with no filament, arc tube, or glass bulb to break. They convert electricity to light directly, so there is no need for dangerous vapors such as Mercury which is found in standard fluorescent T8 bulbs. LEDs do not waste energy when producing light which is why LEDs produce such little surface heat.

Here is the breakdown of cost savings you can take advantage of by switching from fluorescent T8 bulbs to LED T8 Replacement Bulbs.

Fluorescent T8 tube life: 10,000 hours
 Tubes required over 11 years for single fixture: 30
 Fluorescent Tube Cost at \$1.50 x 30 bulbs: \$45.00
 Bulbs are 32 watts x 3 bulbs: 96 watts
 1KWH from DWP 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 11 years = **\$1204.50** per 3 bulb fixture

Ballast replacement life 14,000 hours
 Ballast cost is \$25.00 each x 7 = \$175.00
 Labor to change 7 ballast = \$350.00
 Lens replacement (\$8.00 each)
 Cost to dispose of Fluorescent lamps:
 T8 x .15 = .60 cents x 30 lamps = \$18.00
 Labor to change 30 lamps @ \$20.00 per year x 11 years = \$220.00
 Associated Costs: **\$771.00**

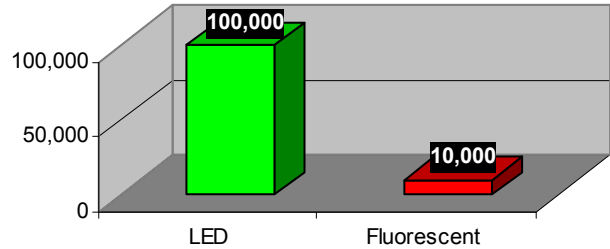
Total T8 Fluorescent Fixture Cost Over 11 Year Period = \$1975.00

LED T8 tube life: 100,000 hours
 Tubes required over 11 years for single fixture = 3
 LED Cost at \$61.00 x 3 units = \$183.00
 Bulbs are 17 watts x 3 = 51 watts
 1KWH from DWP cost = .13 cents
 51 watts x 24 hours = 1224 watts divided by 1000 = 1.22
 1.22 kWh x .16 cents = .20 cents per day
 20 cents x 365 days in a year = \$73.00 per year
 \$73.00 x 11 years = \$803.00 per 3 bulb fixture

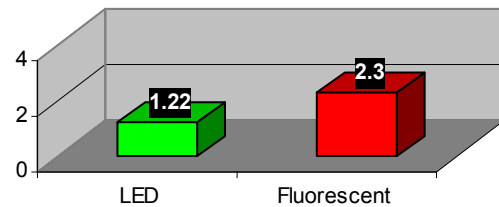
Total T8 LED Fixture Cost Over 11 Year Period = \$986.00

Annual Savings = \$89.91
x 11 years = \$989.01

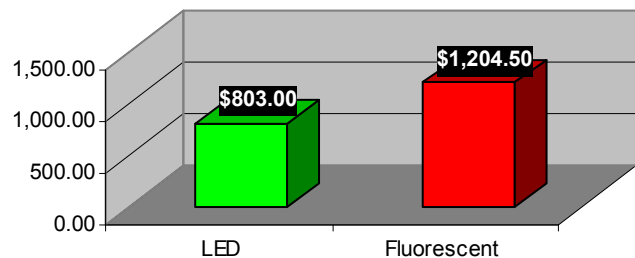
Tube Life (hours)



Power Consumed Over 11 Years (kWh)



11 Year Electricity Cost (\$)



Total Cost Over 11 Years (\$)

