

LIGHTING RETROFIT ANALYSIS

FOUR BULB LAMP RETROFIT COST

DESCRIPTION	QTY	UNIT COST (\$)	LAMP COST (\$)	
T8 Lamps	4	\$1.79	\$7.16	
Electronic Ballast-112 Watts	1	\$14.09	\$14.09	
Labor-Manhours	0.5	\$50.00	<u>\$25.00</u>	
Cost per 4 Bulb Fixture				\$46.25

T-8 & ELECTRONIC BALLAST FOUR BULB LAMP RETROFIT ANNUAL ENERGY COST SAVINGS

DESCRIPTION	POWER PER FIXTURE (Kw)	HOURS PER YEAR (Hr)	ANNUAL ENERGY SAVED (KwHrs)	ENERGY COST PER KwHr (\$)	ANNUAL ENERGY COST SAVED (\$)
Energy Saved Per Fixture	0.032	2,000	64	\$0.08	\$5.12
	0.024				

T-8 & ELECTRONIC BALLAST FOUR BULB LAMP ANNUAL MAINTENANCE COST

DESCRIPTION	USEFUL LIFE (Hr)	HOURS PER YEAR (Hr)	REPAIR LABOR (Hr)	REPAIR LABOR COST (\$/Hr)	REPAIR LABOR COST (\$)	REPAIR PARTS COST (\$)	REPAIR COST (\$)	ANNUAL REPAIR COST (\$)	ANNUAL REPAIR COST (\$)
T-8 Lamp Annualized Replacement Cost	20,000	2,000	0.5	\$20.00	\$10.00	\$7.16	\$17.16	\$1.72	
T-8 Electronic Ballast Annualized Replacement Cost	20,000	2,000	1	\$20.00	\$20.00	\$14.09	\$34.09	<u>\$3.41</u>	
T-8 & Electronic Ballast Annualized Maintenance Cost									\$5.13

T-12 & MAGNETIC BALLAST FOUR BULB LAMP ANNUAL MAINTENANCE COST

DESCRIPTION	USEFUL LIFE (Hr)	HOURS PER YEAR (Hr)	REPAIR LABOR (Hr)	REPAIR LABOR COST (\$/Hr)	REPAIR LABOR COST (\$)	REPAIR PARTS COST (\$)	REPAIR COST (\$)	ANNUAL REPAIR COST (\$)	ANNUAL REPAIR COST (\$)
T-12 Lamp Annualized Replacement Cost	20,000	2,000	0.5	\$20.00	\$10.00	\$7.16	\$17.16	\$1.72	
T-12 Electronic Ballast Annualized Replacement Cost	20,000	2,000	1	\$20.00	\$20.00	\$12.50	\$32.50	<u>\$3.25</u>	
T-12 & Electronic Ballast Annualized Maintenance Cost									\$4.97

LIGHTING RETROFIT PAYBACK ANALYSIS

DESCRIPTION	SAVINGS PER FIXTURE (\$)
T-12 & Magnetic Ballast Annualized Maintenance Cost	\$4.97
T-8 & Electronic Ballast Annualized Maintenance Cost	-\$5.13
<u>Lighting Retrofit Annual Energy Cost Savings</u>	<u>\$5.12</u>
True Lighting Retrofit Annual Energy Cost Savings	\$4.96
Initial Cost of Retrofit	\$46.25
True Lighting Retrofit Annual Energy Cost Savings	\$4.96
Payback Months	112 Months
Payback Years	9.32 Years