

ENERGY SAVINGS BREAKDOWN

A. Total Power Savings Per Year By Upgrading to LED Lighting		
A1. Original Estimated Kilowatt Hours per Week:	<u>Existing Fixture Quantity x Fixture Wattage x Hours Per Week</u> 1000	
A2. Replacement Kilowatt Hours per Week:	<u>Replacement Fixture Quantity x Fixture Wattage x Hours Per Week</u> 1000	
A3. Average Weeks of Use per Year:	How many weeks of the year do you use your lights?	
A4. Total kWh Saved per Year:	A1 - A2	
A5. Your Average Power Cost per kWh:	This number depends on where you are located and ranges from city to city.	
A6. Total Power Savings per Year:	A4 x A5	
B. Lifetime Power Cost Savings		
B1. Replacement Bulb Life	How many hours will the bulb last for.	
B2. Average Hours of Use per Year	Hours Per Week divided by 24 then multiply by number of weeks of use	
B3. Average Lifetime of Replacement Bulbs	B1 x 0.000114155	
B4. Lifetime Power Cost Savings	A7 x B3	
C. Maintenance / Inventory Savings By Upgrading to LED Lighting		
C1. Estimated Number of Times New Lights will Outlast the Old Lights	<u>Original Bulb Life</u> Replacement Bulb Life	
C2. Labour Cost to Change Original Bulbs (include ballast every 3 bulbs)	Example: \$50.00 for Labour and maintenance and then for ever 3rd bulb \$100.00 (the price of maintenance for bulb and ballast)	
C3. Cost of Original Bulbs (include ballast change every 3 bulbs)	Example: \$70.00 per bulb for a 400W HB and then for ever 3rd bulb \$140.00 (the price of a bulb and ballast)	
C4. Total Lifetime Replacement Cost Savings	C2 + C3 x C1	
C5. Amortized Total Lifetime Replacement Cost Savings per Year	C4 / B3	
D. Payback Period & ROI By Upgrading Lighting		
D1. Total Net Cost of Lighting Upgrade	This number will come from your quote	
D2. Total Power Savings + Replacement Cost Savings per Year	A8 + C5	
D3. Simple Payback on Power Consumption + Replacement Costs	D1 / D2	
D4. Simple Annual Return on Investment (ROI)	D2 / D1	
E. Lifetime Savings Summary		
E1. Lifetime Power Cost Savings	B4	
E2. Lifetime Replacement Cost Savings	C4	
E3. Total Lifetime Costs Savings	B4 + C4	