

# LED RETROFIT LIGHTING ROI WORKSHEET

## Typical Client HID Lighting

Presented by:

### LED Energy Savings

Fixture Type	Total # Fixtures	Current Fixture & Ballast Wattage	Total Current kW	LED Wattage / Fixture	Total LED kW	Daily Hours "ON"	Total Days/yr	Annual Hours "ON"	Current Annual kWh	LED Annual kWh	Annual kWh SAVED	kWh Cost	Current Energy Costs	LED Energy Costs	ANNUAL ENERGY COST SAVINGS
1000W HID	20	1100	22.00	320.0	6.40	12.0	365	4380	96,360	28,032	68,328	\$0.12	\$11,563.20	\$ 3,363.84	\$ 8,199.36
<b>Annual A/C Savings:</b>														\$ -	

### Current Bulb, Ballast and Maintenance Savings

Fixture Type	Total # Fixtures	Current Lamp Type	Lamp Cost / Fixt.	Current Lamp Life (hrs)	Current Ballast Life (hrs)	Total Lamp Cost	Lamp Life Cycle (yrs)	LED Life Cycle (yrs)	Re-Lamp Savings	Relamp Labor \$ / Fixture	Re-Lamp Labor Cost	Ballast Costs	Ballast Labor Cost	Ballast Cost	Ballast Labor	Total Current Fixture Maintenance Cost / LED Savings
Shoe Box	20	1000W MH	\$60.00	10,000	20,000	\$1,200.00	2.28	11.42	\$6,000	\$60.00	\$6,000	\$75.00	\$60.00	\$ 7,500.00	\$ 6,000.00	\$ 25,500.00

Notes: All fields in RED are variables to be filled in.

kWh Cost: Take total monthly electric bill, divide by the number of kWhs

A/C Savings: If retrofit is not in air conditioned space, enter a zero here (otherwise, a 1): 0

LED Materials Price / Fixture: \$850.00

LED Installation Price / Fixture: \$50.00

Installed LED / Fixture: \$900.00

**Annual Energy Savings \$ 8,199.36**

**Life Expectancy of LED Lamps (yrs) 11.42**

**Total LED Energy Savings \$ 93,600.00**

**Bulb, Ballast & Maintenance Savings \$ 25,500.00**

**Total Return on Investment \$ 119,100.00**

**Total Cost to Retrofit LED Technology \$ 18,000.00**

**Total Net Savings \$ 101,100.00**

**Annual Rate of Return on Investment: 57.96%**

**Lbs. of CO2 Emissions Saved: 20,527,416**

**Monthly Savings: \$ 869.43**

**Monthly Payment (5 Year Lease): \$ (386.64)**

**Monthly POSITIVE CASH FLOW: \$ 482.79**

This overview is provided for a general evaluation of cost effectiveness, only.

Energy and maintenance savings are based on local utility data and contracting and material cost estimates. Lease payment figures are estimated. Actual savings and lease payments may vary.