

Step 1. Enter your data in the table below to calculate how much you could save:

Lighting Systems		Present Lamp	LED	
Lamp Part Number		50	3	
Lamp Retail Price (\$)	P	\$5.00	\$32.00	\$
Lamp Wattage (W)	W	50	3	Watts
Lamp Life (Hrs)	L	3,000	50,000	Hours
Daily Operating Hours (Hrs)	H_D		10	Hours
Hourly Labor Rate (\$/Hr)	R_L		\$20.00	(\$/Hr)
Electricity Rate per KWH (\$)	R_E		\$0.13	\$
Total Number of Bulbs used in one location	N		1	pcs
Total Number of Stores/Locations	S		1	Location(s)
		Note:	Required Data Fields	

Result 1. Calculation Results:

COMPARISON SUMMARY		Present Lamp	LED	
Lamp Part Number		50	3	
Lamp Retail Price (\$)	P	\$5.00	\$32.00	\$
Lamp Wattage (W)	W	50	3	Watts
Published Lamp Life (Hrs)	L	3,000	50,000	Hours
Estimated Usage Life in Years	Y	0.82	13.70	Year(s)
Annual Operating Hours (Hrs) $H_A=365 \times H_D$	H_A		3650	Hours
Hourly Labor Rate (\$/Hr)	R_L		\$20.00	(\$/Hr)
Electricity Rate per KWH (\$)	R_E		\$0.129	\$
Total Number of Bulbs use in one location	N		1	pcs
Total Number of Stores/Locations	S		1	Location(s)

Result 2. Annual System Operating Cost Comparison:

ANNUAL OPERATING COSTS		Present Lamp	LED
Bulb Cost $BC=(H_A/L) \times P \times N$	BC	\$6.08	\$2.34
Labor Cost to Re-lamp $LC=(H_A/L) \times R_L \times N$	LC	\$24.33	\$1.46
Electric Cost $EC=(W \times H_A \times R_E \times N)/1000$	EC	\$23.54	\$1.41
Total Operating Cost $TC=BC+LC+EC$	TC	\$53.96	\$5.21

Result 3. Estimated Annual Savings:

ANNUAL SAVINGS PER STORE (BULB)/LOCATION FOR USING LED LAMPS		
Annual Electric Bill Savings $AE=EC_{lamp}-EC_{LED}$	AE	\$22.13
Total Annual Savings $AS=TC_{lamp}-TC_{LED}$	AS	\$48.75
Return of Cost (just Rate Savings) months $= P_{LED} \times N / (AE \times 12)$	ROC	17.35
Energy Bill Savings Over LED Lamp Life	ES	\$303.15
Total Savings Over LED Lamp Life	TS	\$667.82

***** YOUR ESTIMATED ANNUAL SAVINGS FOR 1 BULB OR STORE(S) IS =====> \$48.75**

Result 4. Estimated Multiple Stores/Years Savings:

PROJECTED SAVINGS FOR ADDITIONAL STORES USING LED LAMPS

NUMBER OF STORES/LOCATIONS	1 YEAR	5 YEARS	
1	\$48.75	\$243.75	\$667.82
10	\$487.51	\$2,437.53	\$6,678.17

**You will replace Halogen 50W MR16, sixteen times before replacing the LED power saver bulb
The LED uses \$0.12 electricity monthly while the Halogen bulb uses \$1.96 and operates at 350 degrees.**