

Incandescent-to-LED-Relamping Energy Cost Savings Calculation Results:

LEDtronics Incandescent Replacement LED Lamp Saving Form

Calculated Estimated Savings*

Lighting System		Present Lamp Used	LEDtronics LED Replacement Part #
Lamp Life (Hours)	A	8000	50000
Lamp Price \$	B	69.00	595.20
Lamp Wattage (Watt)	C	210	52
Lamp Part Number		175 W MV	SLL006P-3D86-TPW-004
Annual Operating Hours	D	4380	
Labor \$ Hourly Rate	E	200	
Rate Charged for per kWh \$	F	.16	
Total Number of Lamps in Use	G	175	
Annual System Operating Costs			
Lamps (BxD÷A)G	H	\$6,611.06	\$9,124.42
Labor (ExD÷A)G	I	\$19,162.50	\$3,066.00
Electricity (Cx Dx Fx G)/1000	J	\$25,754.40	\$6,377.28
Total H+I+J	K	\$51,527.96	\$18,567.70
Estimated Savings with LEDtronics LED Lamps			
Annual Savings K1-K2=L	L	\$32,960.27	
Simple Payback (B2-B1)xG÷L	M	2.79 years	
Return on Investment L/[(B2-B1)xG]x100%	N	35.79%	
Energy \$ Saved Over Lamp Life (J1-J2)xA2÷D	O	\$221,200.00	
Savings Over Lamp Life LxA2÷D	P	\$376,258.75	
Additional Notes			
<p>Lamp life of 24,000 hours is clinical based on a static test. Our understanding with the Street Lighting community is that 8000 hours is a common life cycle for this type of lamp. Unit price of \$9.00 for the lamp does not include the cost of the ballast change out of 2.5 times over the 50,000 hour life expectancy of the LED unit or 6.25 lamp change outs (once again this is a industry standard that has been conveyed to us by several different groups). You are showing a \$35.00/Hr labor rate that we assume is for a single person. Once again the general industry standard says it takes two people and a bucket truck. Based on this we are also told tha the hourly cost runs between \$200 - \$300 / hour depending on the location. I used the lesser amount for the purpose of this calculation</p>			
<p>Form Prepared by: Gary Peterson Company: Ledtronics Phone: 1 800 579-4875 Email: glpeterson@ledtronics.com Date: 4/20/2010 2:06:49 PM</p>			
<p>* Savings may vary depending on application, fixture and burning position. Stated wattage are approximate. Actual lamp wattage may vary depending on design and manufacturing tolerances.</p>			