

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	673.20
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	\$10,320.16
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	\$19,763.44
Estimated Savings with LEDtronics LED Lamps			
Annual Savings K1-K2=L	L	\$31,764.53	
Simple Payback (B2-B1)xG÷L	M	3.33 years	
Return on Investment L/[(B2-B1)xG]x100%	N	30.04%	
Energy \$ Saved Over Lamp Life (J1-J2)xA2÷D	O	\$221,200.00	
Savings Over Lamp Life LxA2÷D	P	\$362,608.75	
Additional Notes			
<p>Lamp life of 24,000 hours is clinical based on a static test. Our understanding in conversation within the Street Lighting community is that 8000 hours is a common life of these types of lamps. Unit price of the lamp of \$9.00 does not include the cost of ballast change out every 2.5 lamp change outs (agina per general industry info) therefore we amortized the cost of 2.5 ballast change outs over the 6.25 lamp change outs. You show a labor rate of \$35.00 per hour which we assume is for a single person. If you are adhering to OSHA safety standards which requires a 2 man crew when operating a bucket truck, the labor rate would be double and this does not include the operating cost of the truck. The general industry standard for this labor cost of 2 maintenance personnel and a truck runs from \$200.00 to \$300.00 depending on the location. I used the lesser amount for this calculation</p>			
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<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>			