

LEDtronics Incandescent Replacement LED Lamp Saving Form

Calculated Estimated Savings*

Lighting System		Present Lamp Used	LEDtronics LED Replacement Part #
Lamp Life (Hours)	A	3000 hours	50000 hours
Lamp Price \$	B	\$6.00	\$125
Lamp Wattage (Watt)	C	90 Watts	16.8 Watts
Lamp Part Number		90 Watt Halogen	PAR38-12X2W-XIW-001S
Annual Operating Hours	D	4380 hours (annually)	
Labor \$ Hourly Rate	E	\$55	
Rate Charged for per kWh \$	F	\$.09	
Total Number of Lamps in Use	G	85	
Annual System Operating Costs			
Lamps ($B \times D \div A$)G	H	\$744.60	\$930.75
Labor ($E \times D \div A$)G	I	\$6,825.50	\$409.53
Electricity ($C \times D \times F \times G$)/1000	J	\$3,015.63	\$562.92
Total H+I+J	K	\$10,585.73	\$1,903.20
Estimated Savings with LEDtronics LED Lamps			
Annual Savings $K1-K2=L$	L	\$8,682.53	
Simple Payback ($B2-B1$) $\times G \div L$	M	1.16 years	
Return on Investment $L / [(B2-B1) \times G] \times 100\%$	N	85.84%	
Energy \$ Saved Over Lamp Life ($J1-J2$) $\times A2 \div D$	O	\$27,999.00	
Savings Over Lamp Life $L \times A2 \div D$	P	\$99,115.67	
Additional Notes			
LEDtronics LED replacement for 90 Watt Halogen in the Stuart Auditorium at Bolling AFB bldg 52 Pay back calculation does not include the required cost of setting up scaffolding to replace the halogen lamps			
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* 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.			