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LED Waves' LED Savings Calculator

Making the switch to LED lighting?

Answer the following questions on your current lighting usage, plus the LED replacement, to calculate your savings.

Form	Results																																							
Number of fixtures to be replaced <input type="text" value="1"/> units	Number of light units to be replaced to LED units: 1 unit																																							
Old fixture (to be replaced) Wattage: <input type="text" value="100"/> Watt Price per unit: <input type="text" value="50.00"/> US\$ Lifespan: <input type="text" value="6,000 hr (Metal Halide)"/> ▾ <small>Incandescent / Halogen: 1,250 hours Metal Halide: 6,000 hours Fluorescent/CFL: 8,000 hours Pulse Start Metal Halide (PSMH): 15,000 hours High Pressure Sodium (HPS): 20,000 hours</small>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">Old fixture</th> <th style="text-align: center;">LED fixture</th> </tr> </thead> <tbody> <tr> <td>Initial cost</td> <td style="text-align: center;">\$50.00</td> <td style="text-align: center;">\$50.00</td> </tr> <tr> <td>Wattage</td> <td style="text-align: center;">100 Watt</td> <td style="text-align: center;">66 Watt</td> </tr> <tr> <td>Electricity cost (12c/kWh)</td> <td style="text-align: center;">\$43.80 per year</td> <td style="text-align: center;">\$28.91 per year</td> </tr> <tr> <td>Lifespan (continuous use)</td> <td style="text-align: center;">6,000 hours</td> <td style="text-align: center;">50,000 hours</td> </tr> <tr> <td>Lifespan when used for 10 hours a day, 7 days a week</td> <td style="text-align: center;">1 year 7 months 22 days</td> <td style="text-align: center;">13 years 8 months 11 days</td> </tr> <tr> <td>No. of times an old fixture to be replaced each year</td> <td style="text-align: center;">0.61 times per year</td> <td style="text-align: center;">-</td> </tr> <tr> <td>No. of times an old fixture to be replaced during the LED fixture's lifespan (13 years 8 months 11 days)</td> <td style="text-align: center;">8 times</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Cost of replacements each year (Incand. bulb cost) × (Number of replacement per year)</td> <td style="text-align: center;">\$30.42 per year</td> <td style="text-align: center;">-</td> </tr> <tr> <td>Total annual cost (Cost of replacing fixtures) + (Electricity) + (Labor cost)</td> <td style="text-align: center;">\$74.22 per year</td> <td style="text-align: center;">\$28.91 per year (same as the annual electricity cost)</td> </tr> <tr> <td>Total cost (after 13 years 8 months 11 days)</td> <td style="text-align: center;">\$1,066</td> <td style="text-align: center;">\$446</td> </tr> <tr> <td>Total savings /w LED fixture (ROI) (after 13 years 8 months 11 days)</td> <td colspan="2" style="text-align: center;">\$1,066 - \$446 = \$620</td> </tr> <tr> <td>Break-even point (per unit) (The amount of time necessary to save as much money as you invested initially)</td> <td colspan="2" style="text-align: center;">less than a day</td> </tr> </tbody> </table>		Old fixture	LED fixture	Initial cost	\$50.00	\$50.00	Wattage	100 Watt	66 Watt	Electricity cost (12c/kWh)	\$43.80 per year	\$28.91 per year	Lifespan (continuous use)	6,000 hours	50,000 hours	Lifespan when used for 10 hours a day, 7 days a week	1 year 7 months 22 days	13 years 8 months 11 days	No. of times an old fixture to be replaced each year	0.61 times per year	-	No. of times an old fixture to be replaced during the LED fixture's lifespan (13 years 8 months 11 days)	8 times	-	Cost of replacements each year (Incand. bulb cost) × (Number of replacement per year)	\$30.42 per year	-	Total annual cost (Cost of replacing fixtures) + (Electricity) + (Labor cost)	\$74.22 per year	\$28.91 per year (same as the annual electricity cost)	Total cost (after 13 years 8 months 11 days)	\$1,066	\$446	Total savings /w LED fixture (ROI) (after 13 years 8 months 11 days)	\$1,066 - \$446 = \$620		Break-even point (per unit) (The amount of time necessary to save as much money as you invested initially)	less than a day	
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Energy rate (electricity cost) <input type="text" value="12c/kWh"/> ▾ <small>The average residential price of electricity in the U.S. in 2015 was 12.66¢/kWh. To find the price per kWh (Kilo Watt hour) for your state and sector, check your energy bill or go to the EIA website.</small>																																								
Hours of operation Used <input type="text" value="7"/> days a week ▾ <input type="text" value="10"/> hours/day ▾																																								
Other factors (optional) Labor cost for relamping: <input type="text" value="(no labor cost)"/> ▾																																								
<input type="button" value="Calculate savings"/>	<input type="button" value="Print the result"/>																																							

*744.52
per year
savings*

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