



**LIGHTING
TRANSFORMATIONS**

- Lighting Transformations
- ▣ Ongoing Projects
ACTV
- ▣ Residential Lighting
- ⊕ Builders Guide to Home Lighting
DELTA Snapshots Online
- ⊕ Interactive Rooms
- ▣ Economic Worksheet
Introduction
Economic Worksheet
- ⊕ Completed Projects
ASSIST
- Recommends
NLPIP Program
PEARL Program
Sponsors
Site map

Residential Lighting

Economic Worksheet

Please use the following sheet to calculate annual energy savings, annual operating cost savings, and simple payback. Please note that some fields are defaulted to 1. **These fields must contain a number, not zero, or the calculation will be inaccurate.** Please refer to the [Instructions](#) for specific details and suggestions on how to enter appropriate data for each field.

Item	Directions	Design1	Design2	Units
A	Enter lamp/ballast watts	<input type="text"/>	<input type="text"/>	watts
B	Enter number of lamps	<input type="text" value="1"/>	<input type="text" value="1"/>	
C	Enter Power Reduction Factor	<input type="text" value="1"/>	<input type="text" value="1"/>	
D	Enter the hours of one lamp's daily operation	<input type="text" value="1"/>	<input type="text" value="1"/>	hours per day
E	Enter motion detector factor	<input type="text" value="1"/>	<input type="text" value="1"/>	

Stop here if you only want to calculate annual energy savings - Click Calculate below.

F Enter cost of dollars

	electricity			per kWh
G	Enter average rated lamp life	<input type="text" value="1"/>	<input type="text" value="1"/>	hours
H	Enter lamp life multiplier	<input type="text" value="1"/>	<input type="text" value="1"/>	
I	Enter price of one lamp	<input type="text"/>	<input type="text"/>	dollars per lamp

Stop here if you are calculating annual operation cost savings - Click Calculate below.

Calculate	Reset Table
-----------	-------------

J	Enter the amount of incentive	<input type="text"/>	<input type="text"/>	dollars
K	Enter the price of lamp(s) [B x I]	<input type="text"/>	<input type="text"/>	dollars
L	Enter the price of ballast(s)	<input type="text"/>	<input type="text"/>	dollars
M	Enter the price of luminaire(s)	<input type="text"/>	<input type="text"/>	dollars
N	Enter the price of control(s)	<input type="text"/>	<input type="text"/>	dollars
O	Enter the total cost of labor	<input type="text"/>	<input type="text"/>	dollars

Calculate	Reset Table
-----------	-------------