

ESTIMATED SAVINGS & PAYBACK REPORT

PROJECT: RESIDENTIAL LIGHTING DESIGN
ITEM: DLD-X13W LED RECESSED DOWNLIGHT VS. 100W INCANDESCANT

OPERATIONAL ASSUMPTIONS: RESIDENTIAL

Energy & Labor Costs		Lighting Application		
Energy (per kWh)		Product		NOTES: OKT 13w led retrofit downlight is equal to 100W incandescent bulb
Relamp Labor	\$2.00	Quantity		
Reballast Labor		Operating Hours		
Relamp Time (Hr)		Hours per Day	12	
Reballast Time		Days per Year	365	

PRODUCT EQUIVALENCIES

All suggested product specs may be revised.

DLD-x13W vs 100w Incan				
Name	Price		Total Wattage (W)	Lifetime (HR)
	Housing	Fixture		
13W LED Downlight	\$10.00	\$29.95	13	50,000
Incumbent Products				
Name	Price		Total Wattage	Lifetime
	Housing	Fixture		
100W Incan	\$10.00	\$2.50	100	2,500

TOTAL LIFETIME COSTS COMPARISON & SAVINGS

Item	DLD-x13W	100W Incan	Cost Saving
Fixture or Lamp Lifetime in Years	11.4	.6	
Initial Purchase Cost	\$3,995	\$1,250	-\$2,745
Energy Cost	\$6,500	\$50,000	\$43,500
Number Relamps	-	\$2000	
Lamp Costs	\$0	\$5,000	\$5,000
Relamp Labor	\$0	\$4,000	\$4,000

ANNUAL COSTS COMPARISON & SAVING

Energy Cost	\$569	\$4,380	\$3,811
Number Relamps	-	175	
Lamp Costs	\$0	\$438	\$438
Relamp Labor	\$0	\$350	\$350

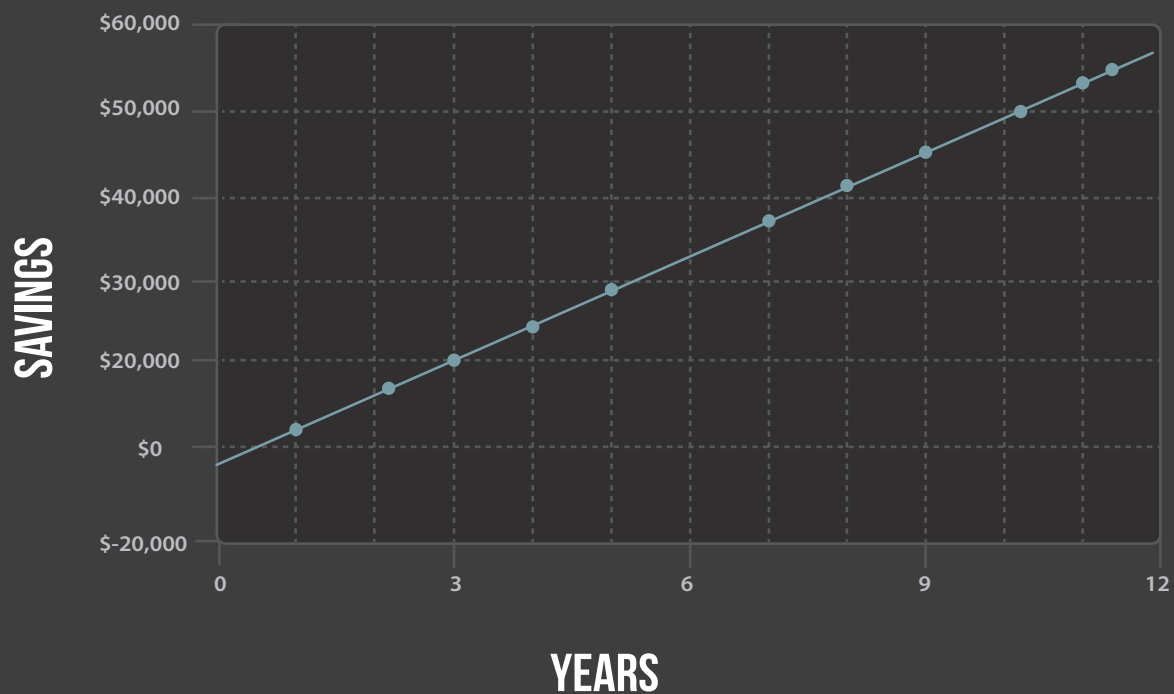
SIMPLE PAYBACK

Payback calculations are normalized using average annual operating costs. Actual payback time may vary depending on the maintenance schedule. Lifetime based on 50,000 hours.

Years	DLD-x13W	100W Incan
0	\$3,995	\$1,250
1	\$4,564	\$6,418
2	\$5,133	\$11,586
3	\$5,702	\$16,754
4	\$6,271	\$21,922
5	\$6,840	\$27,090
6	\$7,409	\$32,258
7	\$7,978	\$37,426
8	\$8,547	\$42,594
9	\$9,116	\$47,762
10	\$9,685	\$52,930
11	\$10,254	\$58,098
11.4	\$10,443.67	\$59,820.67

SAVINGS
\$-2,745
\$1,854
\$6,453
\$11,052
\$15,651
\$20,250
\$24,849
\$29,448
\$34,047
\$38,646
\$43,254
\$47,844
\$49,377

LIFETIME COST ACCUMULATION



NOTE: For accuracy, the chart data range must be reselected after each data revision to collect ONLY populated cells.