

Cartref: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T8			
# of T8:	132		
Cost = Cost of LED + Labor Cost			
Price of LED 6114 (\$):	\$85.75		
		Cost of LED 6114(\$):	\$11319.00
# of fixtures w/ bulbs <=4:	66	Watts (T8):	32
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED 6114):	16
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	1650		
in hours (hr):	27.5		
		Cost of Labor (\$)	\$962.50
		Total Cost (\$):	\$12281.50
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	2.112		
Hours of operation:			
Total Hour of Operation:			
Change in kW-hr (kWh):	4392.96		
		Return on Energy Saving/Yr (\$):	\$395.3664
Frequency of changing T8/Yr	0.3467	Life of T8 (hr):	6000
Frequency of changing LED/Yr:	0.0416	Life of LED 6114 (hr):	50000
Labor Cost/3 Yr: T8 (\$)	\$2217.60		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$2217.60		
		Return on Labor Saving/3 Yr (\$):	\$2217.60
		Total Return/3 Yr:	\$3403.70
		Total Return / Yr:	\$1134.57
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	10.82
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$7.50		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$2970.00
		Total Cost–Total Incentive (\$):	\$9311.50
		Years to Breakeven (Yr):	8.21

Helfarian: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T8			
# of T8:	336		
Cost = Cost of LED + Labor Cost			
Price of LED 6114 (\$):	\$85.75		
		Cost of LED 6114(\$):	\$28812.00
# of fixtures w/ bulbs <=4:	90	Watts (T8):	32
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED 6114):	16
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	2250		
in hours (hr):	37.5		
		Cost of Labor (\$)	\$1312.50
		Total Cost (\$):	\$30124.50
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	5.376		
Hours of operation:			
Total Hour of Operation:			
Change in kW-hr (kWh):	11182.08		
		Return on Energy Saving/Yr (\$):	1006.39
Frequency of changing T8/Yr	0.3467	Life of T8 (hr):	6000
Frequency of changing LED/Yr:	0.0416	Life of LED 6114 (hr):	50000
Labor Cost/3 Yr: T8 (\$)	\$5644.80		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$5644.80		
		Return on Labor Saving/3 Yr (\$):	\$5644.80
		Total Return/3 Yr:	8663.96
		Total Return / Yr:	2887.99
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	10.43
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$7.50		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$7560.00
		Total Cost–Total Incentive (\$):	\$22564.50
		Years to Breakeven (Yr):	7.81

Helfarian: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: PAR38			
# of PAR38:	9		
Cost = Cost of LED + Labor Cost			
Price of LED 1666 (\$):	\$82.15		
		Cost of LED 1666(\$):	\$739.35
# of fixtures w/ bulbs <=4:	9	Watts (PAR38):	100
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED 1666):	10
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	225		
in hours (hr):	3.75		
		Cost of Labor (\$)	\$131.25
		Total Cost (\$):	\$870.60
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	0.81		
Hours of operation:			
Total Hour of Operation:	2080		
Change in kW-hr (kWh):	1684.8		
		Return on Energy Saving/Yr (\$):	\$151.63
Frequency of changing PAR38/Yr	0.52	Life of PAR38 (hr):	4000
Frequency of changing LED/Yr:	0.0416	Life of LED 1666 (hr):	50000
Labor Cost/3 Yr: PAR38 (\$)	\$151.20		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$151.20		
		Return on Labor Saving/3 Yr (\$):	\$151.20
		Total Return/3 Yr:	\$606.09
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	4.31
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$0.00		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$135.00
		Total Cost–Total Incentive (\$):	\$735.60
		Years to Breakeven (Yr):	3.64

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T8			
# of T8:	105		
Cost = Cost of LED + Labor Cost			
Price of LED 6114 (\$):	\$85.75		
		Cost of LED 6114(\$):	\$9003.75
# of fixtures w/ bulbs <=4:	57	Watts (T8):	32
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED 1666):	16
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	1425		
in hours (hr):	23.75		
		Cost of Labor (\$)	\$831.25
		Total Cost (\$):	\$9835.00
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	1.68		
Hours of operation:			
Total Hour of Operation:	2080		
Change in kW-hr (kWh):	3494.4		
		Return on Energy Saving/Yr (\$):	\$314.50
Frequency of changing T8/Yr	0.3467	Life of T8 (hr):	4000
Frequency of changing LED/Yr:	0.0416	Life of LED 6114 (hr):	50000
Labor Cost/3 Yr: T8 (\$)	\$1764.00		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$1764.00		
		Return on Labor Saving/3 Yr (\$):	\$1764.00
		Total Return/3 Yr:	\$2707.49
		Total Return / Yr:	\$902.50
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	10.90
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$7.50		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$2362.50
		Total Cost–Total Incentive (\$):	\$7472.50
		Years to Breakeven (Yr):	8.28

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: T5 3ft			
# of T5:	286		
Cost = Cost of LED + Labor Cost			
Price of LED(\$):	\$40.50(Estimated)		
		Cost of LED 6114(\$):	\$11583
# of fixtures w/ bulbs <=4:	76	Watts (Short T8):	30
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED):	16
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	1900		
in hours (hr):	31.67		
		Cost of Labor (\$)	\$1108.33
		Total Cost (\$):	\$12691.33
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	4.004		
Hours of operation:			
Total Hour of Operation:	2080		
Change in kW-hr (kWh):	8328.32		
		Return on Energy Saving/Yr (\$):	\$749.55
Frequency of changing Short T8/Yr	0.3467	Life of Short T8 (hr):	6000
Frequency of changing LED/Yr:	0.0416	Life of LED (hr):	50000
Labor Cost/3 Yr: T8 (\$)	\$4804.80		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$4804.80		
		Return on Labor Saving/3 Yr (\$):	\$4804.80
		Total Return/3 Yr:	\$7053.45
		Total Return / Yr	\$2351.15
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	5.40
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$7.50		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$6435.00
		Total Cost–Total Incentive (\$):	
		Years to Breakeven (Yr):	2.66

Gateway: Return on Investment (ROI) w/ Smart Ideas Incentive

Light Bulb Model: PAR38			
# of PAR38:	22		
Cost = Cost of LED + Labor Cost			
Price of LED 1666 (\$):	\$82.15		
		Cost of LED 1666(\$):	\$1807.30
# of fixtures w/ bulbs <=4:	22	Watts (PAR38):	100
# of fixtures w/ bulbs >4, <=8:	0	Watts (LED 1666):	10
# of fixtures w/ bulbs >8, <=12:	0		
Time taken to change bulbs (mins):	550		
in hours (hr):	9.167		
		Cost of Labor (\$)	\$320.83
		Total Cost (\$):	\$2128.13
Annual Return = Energy Saving+ Labor Cost Saving			
Change in kW:	1.98		
Hours of operation:			
Total Hour of Operation:			
Change in kW-hr (kWh):	4118.4		
		Return on Energy Saving/Yr (\$):	\$370.65
Frequency of changing PAR38/Yr	0.52	Life of PAR38 (hr):	4000
Frequency of changing LED/Yr:	0.0416	Life of LED 1666 (hr):	50000
Labor Cost/3 Yr: PAR38 (\$)	\$369.60		
Labor Cost/3 Yr: LED (\$)	\$0.00		
Change in Labor Cost/3 Yr:	\$369.60		
		Return on Labor Saving/3 Yr (\$):	\$369.60
		Total Return/3 Yr:	\$1481.55
# of Years to Breakeven = Cost/Annual Return			
		# of Years to Breakeven (Yr):	4.31
Smart Idea Incentive:			
Removal of 4-ft Lamp (\$):	\$0.00		
Installation of LED (<18W) (\$):	\$15.00		
		Total Incentive (\$):	\$330.00
		Total Cost–Total Incentive (\$):	\$1798.13
		Years to Breakeven (Yr):	3.64