

## Green Paper

**Project Name:** Colonial 2-Floor Home (3,000 sqft)

**Application:** Residential Home

**Products Installed:**

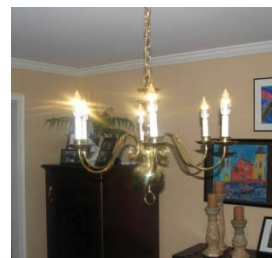
- A. Kitchen:
- 6 pieces Dimmable 12W PAR38 replacing 75W Incandescent recessed bulbs
  - 6 pieces 4W Candelabra replacing 40W Incandescent bulbs
  - 12 ft under cabinet LED strip light (53W) replacing 6 pieces 50W Halogen Puck
  - 2 pieces of 3W LED pendent retrofit replacing 35W Halogen bulbs



- A. Family Room:
- 5 pieces Dimmable 9W PAR30 replacing 65W Incandescent bulbs
  - 2 pieces Dimmable 3W PAR20 replacing 40W incandescent bulbs
  - 2 pieces 9W A19 table lamp replacing 75W incandescent bulbs



- A. Dining Room:
- 6 pieces Dimmable 3W Candelabra replacing 40W Incandescent bulbs



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- D. Living Room: - 3 pieces Dimmable 9W PAR380 replacing 65W Halogen recessed bulbs  
- 2 pieces 9W A19 Table Lamp replacing 75W Incandescent bulbs



- E. Bath Rooms: - 16 pieces 3W G60 3500K replacing 40W incandescent bulbs  
- 2 pieces 6W A19 replacing 40W Incandescent bulbs



- E. Bed Rooms / Hall: - 8 pieces 6W A19 replacing 60 W incandescent bulbs  
- 7 pieces Dimmable 3W G50 replacing 40W Incandescent bulbs



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- G. Study: - 7 pieces 4W MR16 / GU10 replacing 50W Halogen bulbs  
 - 3 ft under cabinet light strip (13W) replacing 4 pieces of 50W Halogen Puck



- H. Basement: - 13 pieces Dimmable 12W PAR38 replacing 100W incandescent bulbs  
 - 5 Pieces Dimmable 3W MR16 replacing 50W Halogen bulbs



- I. Outdoor: - 4 pieces 9W PAR38 Flood replacing 100W incandescent Flood lights  
 - 4 pieces 4W Candelabra replacing 40W incandescent lantern nights  
 - 6 pieces 8W P60 replacing 75W incandescent lantern lights



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- J. Utility:  
 - 2 pieces 8W P60 replacing 75W Incandescent bulbs - Garage  
 - 2 Pieces 8W P60 replacing 75W Incandescent bulbs - Basement Storage area



### LED Bulbs Installed:



PAR30 – 9W



PAR38 – 12W



PAR38 – Flood – 9W



MR16 – 4W



A19 – 9W



A19 – 6W



G60 – 4W



Candelabra – 4W



P60 – 8W



Under Cabinet Lights – 4.4W per ft



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**Savings:** This home is savings over \$200 per month amounting to \$2,533 per year. The total investment was \$6,024 and the payback period is 2.4 years. The savings are based on the following :

1. Total Delivered power cost is \$0.16/kw-hr
2. Replacement lamp cost for traditional lighting are \$1.00 - \$4.50 depending on lamp type.
3. Usage amount as stated in the table below.

Room	Quantity	Bulb Type	LED Power (Watt)	Traditional Power (Watt)	Usage (hr/day)	Usage (hr/yr)	Power Savings (KW/yr)	Total Savings (\$/yr)	LED Price	Extended Price	Payback
Kitchen	6	PAR38	12	75	10	3650	230	\$220.15	\$94.30	\$565.80	2.6
Kitchen	6	Candelabra	4	40	10	3650	131	\$134.80	\$29.55	\$177.30	1.3
Kitchen	1	Under Cabinet	53	300	10	3650	902	\$170.06	\$240.00	\$240.00	1.4
Family Room	5	PAR30	9	65	7	2555	143	\$120.94	\$81.40	\$407.00	3.4
Family Room	2	A19	9	75	7	2555	169	\$142.94	\$45.00	\$90.00	0.6
Family Room	2	PAR20	3	40	5	1825	68	\$62.97	\$36.00	\$72.00	1.1
Dining Room	6	Candelabra	4	40	2	730	26	\$29.53	\$29.55	\$177.30	6.0
Living Room	3	PAR30	9	65	4	1460	82	\$38.97	\$81.40	\$244.20	6.3
Living Room	2	A19	9	75	4	1460	96	\$31.25	\$45.00	\$90.00	2.9
Bath Rooms	16	G60	3	40	2	730	27	\$73.78	\$31.64	\$506.24	6.9
Bath Rooms	2	A19	6	60	2	730	39	\$13.31	\$31.64	\$63.28	4.8
Bedrooms	8	A19	6	60	4	1460	79	\$52.23	\$31.64	\$253.12	4.8
Hallway	4	G50	3	40	12	4380	162	\$120.90	\$29.55	\$118.20	1.0
Hallway	16	Candelabra	4	40	4	1460	53	\$157.48	\$29.55	\$472.80	3.0
Study	8	MR16	4	50	10	3650	168	\$272.56	\$29.55	\$236.40	0.9
Study	1	Under Cabinet	12	150	10	3650	504	\$87.65	\$95.00	\$95.00	1.1
Basement	13	PAR38	12	100	4	1460	128	\$309.10	\$94.30	\$1,225.90	4.0
Basement	5	MR16	4	50	4	1460	67	\$64.50	\$29.55	\$147.75	2.3
Outdoor	4	Candelabra	4	50	12	4380	201	\$101.11	\$29.55	\$118.20	1.2
Outdoor	4	PAR38 Flood	9	75	12	4380	289	\$101.11	\$59.98	\$239.92	2.4
Outdoor	6	P60	8	75	8	2920	196	\$195.77	\$48.38	\$290.28	1.5
Basement	2	P60	8	75	2	730	49	\$16.34	\$48.38	\$96.76	5.9
Garage	2	P60	8	75	2	730	49	\$16.34	\$48.38	\$96.76	5.9
<b>Total</b>	<b>124</b>							<b>\$2,533.79</b>		<b>\$6,024.21</b>	<b>2.4</b>

*As energy costs continue to rise this family will enjoy even a greater savings beyond the \$2,533 per year they save today ! Visit [www.usaledsolutions.com](http://www.usaledsolutions.com) and click on the Savings Calculator to estimate your savings for your specific home requirements.*

**USA LED offers Exceptional Lighting Solutions with Extraordinary Savings**

