

CASE STUDY 1 : RAYMOND WEIL CORP, USA (NYC)



PROJECT SNAPSHOT

Customer	Raymond Weil Corp
Space Type	Office (headquarters)
Lighting measures	Retrofit halogen and incandescent bulbs
Project Cost	\$17,424
Incentives	\$12,197
Payback	4 months
Energy Reduction	81%
Yearly Savings	\$9,900

THE OPPORTUNITY

Raymond Weil Corp, USA wanted to reduce its electrical load in order to lower its operating costs, reduce heat in its offices and operate on a more sustainable basis.

Starting situation:

- Halogen PAR38s (90W) – offices and hallways;
- Halogen MR16 lamps (50W) – lobby and conference room;
- Incandescent A19 bulbs (60W) – hallway sconces;
- Total electrical load for lighting was 16.75 kW;
- Annual consumption of electricity for lighting: 64,422 kWh
- Annual cost of electricity for lighting: \$12,240

THE SOLUTION

An audit of the existing lighting was made by LED Light Energy, followed by a review of the LED lamp options and the incentives that were available. Several LED products were showcased/tested in order to choose the right product design, color temperature and beam angle most suited to the application.

Final solution:

- EnduraLED PAR38s (17W) – 3000K, 36° beam angle
- EnduraLED MR16 lamps (10W) – 3000K 24° beam angle
- EnduraLED A19 lamps (12.5W) – 2700K – Winner of the DOE L Prize
- Energy load lowered to 3.21 kW, a reduction of 81%.
- Annual consumption of electricity for LED lighting: 12,319 kWh
- Annual cost of electricity for lighting: \$2,341
- The temperature dropped to a comfortable level in all offices, and the thermostat setting was actually increased by 3-4 degrees as it no longer needed to offset the heat generated by the halogens.

