

# LED LIGHTING CASE STUDY

phone 425-444-4826

email larry.johnson@equimco.com

web equimco.com

## Bothell Furniture, Bothell, WA

### The Situation

Bothell Furniture is a furniture store and showroom in Bothell, WA that sells mostly American made, high quality, furniture where some of their furniture is hand-made and unique. The owners, Jared Holeman and Scott Susott, were very intrigued in the economical and technical benefits of converting their flood lights from incandescent bulbs to LED bulbs. The old bulbs failed too often and over-heated the store. In addition, the store's wanted to explore the possibility of making the showroom "greener".

### The Solution

Because of their interest in both saving money and in "greener" LED-based lighting, Jared and Scott considered the financial scenarios offered by LED Light Technology that would produce a 80% reduction in the electrical load for the gallery's lighting, increase bulb life, eliminate UV light, lower their carbon footprint, and would lower their HVAC expenses.

Equimco proposed to convert the existing 90 watt bulbs to *Energy Star* approved, 18 watt, LED bulbs, from LED Light Technology. The rated life of the bulbs would increase from 2,000 hours to 50,000 hours or more than 16 years in the furniture showroom.

After applying a per-bulb rebate from Puget Sound Energy, the payback period was less than 10 months and maintenance expenses would be eliminated for over 16 years. The net project cost to the gallery was approximately \$4,000.

Installation of the bulbs would be on a bulb-for-bulb replacement basis. No new wiring or conduit would be required to install the LED bulbs.

### The Result

Over \$4,700 per year in total savings.

Bulb replacement costs of about \$1,000 per year were eliminated.

No lighting maintenance expenses for at least 16 years.

Reduced their carbon footprint by over 1,800 pounds per year.

Owner's return on investment of 1,000%



## Solution Overview

Company: Bothell Furniture

Profile: High quality furniture store in Bothell, WA

Challenge: Convert the incandescent lighting in a furniture showroom to energy efficient, PAR38, LED bulbs from LED Light Technology.

Solution: New LED bulbs from LED Light Technology reduced annual power consumption by 80%

Result: A dramatic reduction of overall lighting expense, a ROI that was 1,031%, no new bulbs for 16 years, and overall savings of over \$4,700 per year.

**EQUIMCO**

Representatives for LED Light Technology

