

SCREW-IN LED CASE STUDY

FURNITURE SUPERSTORE

Many of Maine's showrooms can achieve significant lighting savings by switching to LEDs. South Portland's Furniture Superstore replaced over 800 75-watt PAR30 incandescent bulbs in its dual-purpose warehouse and showroom space. The spotlights there are used up to 11 hours a day, seven days a week.

ENERGY SAVINGS

Replacing its 75-watt incandescents with 13-watt LEDs discounted by Efficiency Maine enabled this expansive showroom to cut its annual lighting bill by more than **80 percent—saving over \$20,000 per year.**

REDUCED BULB REPLACEMENT LABOR AND MATERIALS

In addition to energy savings, Furniture Superstore anticipates greatly reduced replacement and maintenance costs because LED bulbs have a much longer life than incandescent bulbs. Incandescent bulbs have an average life of 1,000 hours, meaning that an individual showroom spotlight required replacement nearly four times a year. The installed LEDs are **rated for 25,000 hours** and will only need to be replaced **every seven years.**

"Having 19,000 fewer bulb replacements saves us a lot on labor, inconvenience and costs," says owner Doug Abrams.

LIGHT QUALITY

"The quality of the light with the new LEDs is impressive," Doug Abrams adds. "People want to know what their furniture is going to look like when they get it home and these LEDs help them do just that. The improved color of the new bulbs helps me do my job."

The significant lighting, replacement, and operation savings realized in the South Portland location have led Furniture Superstore owner Doug Abrams to begin LED retrofits in other store locations.



Furniture Superstore owner Doug Abrams explains that switching to screw-in LEDs could save over \$20,000 per year in electricity and avoid more than 19,000 bulb replacements during the next seven years. Plus, the new bulbs do a better job showing off the colors of the furniture.



Customer
Furniture Superstore

Location
South Portland, ME

Application
Retail Showroom Lighting

Screw-in LEDs
800 PAR30s

Electricity Savings*
\$22,800/Year

Bulb Replacements Avoided*
19,200 Over 7 Years

Other Benefits
Improved Light Quality

* Estimated

SCREW-IN LED CASE STUDY PORTLAND DRY GOODS

Many of Maine's showrooms can achieve significant lighting savings by switching to LEDs. Portland Dry Goods replaced 90 PAR20 bulbs and 10 MR16 window display lights and inspired other Old Port retailers to make similar upgrades.

ENERGY SAVINGS

Before upgrading to LED bulbs, this downtown Portland store relied on 90 PAR20 halogen bulbs, with ten MR16 halogens in its window display. LED bulbs discounted by Efficiency Maine improved lighting quality while **dropping the wattage of most bulbs from 50W to 8W**. This single change reduced electricity use by **85 percent**.

"It's been great," says Ryan Hall of Portland Dry Goods: "good for the environment and for cash flow." The bulb upgrade saved on monthly electricity bills—due to reduced energy use for both lighting and air conditioning (because LED lights generate less heat than halogens). Lighting savings are expected to be over \$1,400 per year.

REDUCED BULB REPLACEMENT LABOR AND MATERIALS

Thanks to the long life of LED bulbs, Portland Dry Goods can expect to avoid the inconvenience and cost of replacing **2,400 bulbs over the next 9 years**.

Word of the significant electricity savings spread through the Old Port following the installation, and several other retailers upgraded to LED bulbs.



Customer
Portland Dry Goods

Location
Portland, ME

Application
Retail Lighting

Screw-in LEDs
90 PAR20s and 10 MR16s

Electricity Savings*
\$1,476/Year

Bulb Replacements Avoided*
2,400 Over 9 Years

Other Benefits
Improved Light Quality

* Estimated