

Case Study - Costco



Since 1976, Costco has steadily grown to become the second largest retailer in the world. With a total of 674 warehouses in nine countries around the world, Costco is looking to decrease its electricity bill. Operating at 12 daily hours, the previous fluorescent tubes and ballasts burned out on an annual basis, which required maintenance labor.

After surveying Costco's warehouse, Carson Technology identified the meat and deli section as the coolest area in the store. Therefore, Carson recommended installing 8 feet LED vapor tights at 5000K for Costco's meat and deli sections. The frosted, natural-white tubes at 10 feet high will keep workers more attentive without creating a prism and disco light effect.

Estimated Project Savings

128W Fluorescent



Annual Electricity Cost = \$99.90

65% ROI

Annual Savings of \$44.70

18 month payback

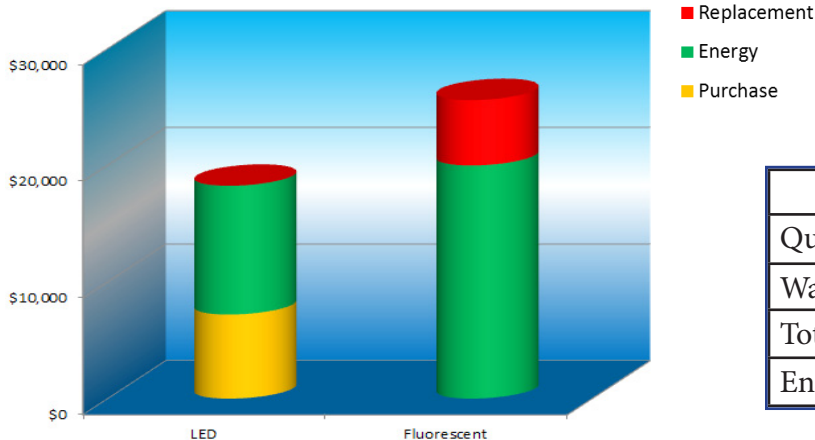
Calculations are based on 5,475 annual hours of operation and \$0.14 average cost per kWh

72W LED



Annual Electricity Cost = \$55.20

Lifetime Costs



	Fluorescent	LED
Quantity	40	40
Watts	128	72
Total Watts	5,120	2,880
Energy Savings	-	43.8%