



## Lukas Liquor Superstore Kansas City, MO

### About the Client

Lukas Liquor Superstore is the "Midwest's largest merchant of fine wines, spirits, and malt beverages." It has three stores including one in Overland Park and St. Louis. The superstore in Kansas City, MO features a large retail space, as well as a wine bar.

---

### Project Cost/Savings...

*Total Cost: \$27,758*

*KCP&L Utility Rebate: \$11,853*

*Net Price: \$15,905*

*Annual kW Savings: 112,642*

*Annual Energy Savings: \$5,927*

*Projected R.O.I.: About 3 years*

---



# Lukas Liquor Superstore

13657 Washington Street, Kansas City, MO

## Project Features...

### Retail Store

Reduced fixture count

- Removal of 73 – 400W metal halides
- Replaced with T8 wide-body reflector fixtures

### Savings

- Cut demand usage in half
- Reduced 156,450 pounds of carbon dioxide
- Equivalent to annual greenhouse emissions from 14 vehicles or electricity usage of 9 homes

## About Worldwide Energy..

*As commercial energy efficiency experts, we help our clients minimize utility expenses with energy efficiency lighting, efficient heating & cooling, and building envelope solutions.*

*Our efforts focus primarily on the areas that provide the greatest utility cost savings and where financial incentives create a rapid return on investment.*

*Worldwide Energy offers a total turnkey solution; utility rebate and Federal EPCAct filing services (provided at no additional charge); complete design & installation services; recycling and project financing. Our services usually have a 2 year or less return on investment.*

## **Client Concerns**

Lukas Liquor Superstore had three main concerns:

- Need for high lighting in retail store area and softer mood lighting for wine bar
- Increase utility and maintenance savings, as well as retail sales
- Store ceiling was more than 20' high with narrow retail aisles

## **The Scope of Work**

The Lukas Liquor Superstore operated a retail area with store ceilings that were more than 20' high, and had narrow retail aisles. High lighting was needed to update the area, and to increase utility and savings.

The outdated lighting included (73) 400w metal halides. These were replaced with T8 wide-body reflector fixtures. All new lighting must have tube guards in order to adhere to the American Institute of Baking (AIB) standards.

The store remained opened 12 hours per day, and had very fragile retail stock. Worldwide Energy crews worked over night to replace the lighting so as not to disrupt retail sales.

Lukas Liquor received rebates from KCP&L in the amount of \$11,853, making the net cost of the project \$15,905. The projected ROI is less than 3 years.

## **Recommendations & Benefits**

**Better visual Acuity** – the specified lamps will result in significantly higher lumen maintenance, more uniformity of illumination, and 30% higher color rendering index (CRI), resulting in fewer errors, and improved morale and safety conditions.

**Hot Restrike** – lamps restart immediately in the event of power interruption

**Reduced Maintenance, Repair and Replacement Expenditures** – 5-year ballast, 24-36-month\* lamp warranties, & 20,000 hour lamp life will result in lower maintenance and repair costs.

## **After Photos**

