

Price Chopper Distribution Warehouse



THE CHALLENGE

Price Chopper’s distribution warehouse in Rotterdam, NY was equipped with inefficient lighting technologies that were causing uneven light levels for staff. Additionally, the lighting system featured a basic control system which did not give staff full control and remote access of the lighting systems.

THE SOLUTION

Price Chopper partnered with SmartWatt to implement a lighting systems optimization project to improve the quality of lighting, reduce energy costs, and achieve central control of all lighting systems.

- **Lighting Design:** A new fixture layout was designed to provide a more even distribution of lighting. The new layout included the removal of unnecessary fixtures, plus the addition of new fixtures in areas that required higher light levels to optimally complete specific tasks.
- **LED Lighting:** LED lamps were installed throughout racking, and loading dock areas. The LED lamps installed required a lower wattage than the original fixtures, while still providing equivalent or higher light levels.
- **Advanced Lighting Controls:** A wireless advanced lighting control system was installed, allowing fixtures in the same area to be grouped together and dimmed automatically to 5-10% of brightness based on a preset schedule or zone occupancy. The ability to dim fixtures instead of turning them off completely, provided substantial savings, while still giving enough illumination to alleviate safety and security concerns.

THE IMPACT

The new lighting design, light levels, and even distribution of light has resulted in positive feedback from the users of the space. Additionally, the cost to maintain and operate the lighting systems has been reduced dramatically, due to the efficiency and long life-span of LEDs, and the ability to control fixtures at a more granular level with the advanced control system.

\$64K / total annual cost savings

351K / annual kWh savings

EPA tax deduction: **\$83K**

Payback period: **<2 years**

Utility rebate: **\$84K**

CO₂ reduction: **533 lbs**