



## Efficiency Upgrade LED Replacement



### Project Specifics

New Era Cap, a leader in headwear and apparel, also leads by example by making sustainability a part of its core business strategy.

Looking for ways to reduce energy usage in their flagship store located in downtown Manhattan, New Era focused on the inefficient track lighting in the store that utilized over 130 incandescent par lamps.

Problems with the existing fixtures were not just limited to their excessive energy consumption. With an incandescent lamp life of only 2,500 hours frequent burn out of the lamps were a costly regular occurrence. Another example of wasted energy was the strain on the air conditioning system in the summer months to combat the high heat out-put of the existing lamps.

**Solution:** Replace each 75 watt incandescent lamp with a state of the art 7.8 watt LED Par 30 lamp. The new LED lamp boasts a 50,000 hour lamp life (20 times that of the existing lamp) and a 90% reduction in energy usage over the existing system.

The LED lamps provide a more even distribution of light, emit minimal heat, maintained store light levels and also received a ConEd rebate of \$4,290 which helped offset the cost of the project.

New Era Cap is looking to further their commitment of helping the environment by implementing this energy efficient upgrade at other retail locations throughout the country.

### Project Facts

- Energy Savings            \$7,150
- kWh reduction            32,501
- Energy Reduction        90%
- Project Payback            16 months

### Environmental Facts

Equivalent to: (annually)

- 48,751 lbs. less CO2 emissions
- 2,145 Gallons of oil not burned
- 4 cars taken off the road
- 73 new trees planted