



EXISTING SYSTEM:

✦ 175w Metal Halide

SOLUTION:

✦ 80w LED

Project Description

Duke University is a private research university located in Durham, North Carolina. They came to **Neptun Light, Inc.** with the challenge of reducing overall power consumption and maintenance costs at their university campus. With Neptun's wide range of energy efficient lighting products, they were able to utilize LED technologies in the retrofit. This lighting provides increased visibility and safety, long life energy savings, and a significant decrease in overall maintenance. Utilizing the existing fixtures with **Neptun's** LED Acorn Retrofit kit provided the most cost effective solution while maintaining high quality lighting results.

THE RESULTS

	Metal Halide	LED Retrofit
Rated Wattage	175w	80w
Input Wattage	210w	82w
Life span	16,000 hrs.	70,000 hrs.
No. of Fixtures	1,450	1,450
Running Time/Year	4,380 (12hrs./day)	4,380 (12hrs./day)
kWh Rate	\$0.06	\$0.06
Annual (kWh)	1,333,710	520,782
Annual (kWh) Savings		812,928
Annual Energy Costs	\$80,023	\$31,247

Overall annual energy savings = **\$48,776**

Total savings over life of product = **\$731,635**

Products

