

Riverland Community College – Woodshop

Project Name: Riverland Community College
Project Location: Woodshop - Riverland Community College, Austin, MN
Date of Installation: July 2002

Due to the age of the existing system (35 years), replacement parts were difficult to find, lamp life was short (12,000 hours), lumen depreciation was high (35%), reflectivity of surfaces had degraded and energy consumption (450 watts) was high for light levels (30-35 fc). Replacement fixtures provided longer lamp life, excellent lumen maintenance, increased light levels (50-60 fc) and reduced energy consumption (224 watts).

Objective: To reduce maintenance costs, lower energy consumption and increase light levels.

Solution: MRN series fixtures provided increased light levels, lower energy use and lower maintenance costs.

Material: Fixture – MRN8 3 32 N5X20 120 2/3 BF90 OSIS; Ballast – 3 lamp instant start with high power ballast factor.



Before

Energy Savings:

Total Existing Wattage – 15,300

Total New Wattage – 7616

Total kW Savings – 7.7 per month

Total kWh Savings – 18,441 per year

Total Energy Savings - \$1,475 per year



After