

# Gould Academy

77%

Reduced energy consumption

## Challenge

Gould Academy needed to install LED lighting and implement necessary lighting controls and appropriate lumen adjustments.

## Solutions

CVAL conducted a detailed lighting assessment and implementation of recommended energy conservation measures that reduced lighting energy use by 77%. The implementations are as follows:

### State-of-the-Art LED Lighting

CVAL designed and installed a premium efficiency LED lighting system to comprehensively replace existing lamps and fixtures.

### Lighting Control

CVAL installed digital control system to reduce the operating hours of the lighting system through programmed scheduling and use of occupancy sensors. The programming included automated dimming during daytime hours to maximize the use of natural light.

### Lumen Level Adjustment

CVAL adjusted lumen level to meet the Illuminating Engineering Society of North America (IES) recommended standards.

## Building Details

- **Location:** Bethel, ME
- **Building Type:** Dining hall & conference center
- **Building Height:** 2 story
- **Year Built:** 1998
- **Building Area:** 102,571 sq ft
- **Project Completion:** Dec 2013
- **Investment:** \$95,580
- **Operational Savings, \$/yr :** \$14,060
- **Simple Payback, years:** 6.8
- **Estimated Energy Savings, kWh / yr:** 113