

Update Lighting While Reducing Wattage by over 50% for a Senior Living Center

Enhance comfort, save energy, and lower operating costs

Target: TO CREATE A UNIFORM LIGHTING ENVIRONMENT WHILE SAVING ENERGY

- To create a uniform lighting environment in the hallways that are on 24 hours a day
- To replace inefficient 400 watt Metal Halides with an efficient, instant on LED high-bay in the pool area
- Annual energy savings are estimated at \$14,032.92 with a lighting run time of 16 hours per day and kWh rate of \$.10
- U.S. Department of Energy estimates a cost of \$2.37 per lamp annually in bulb and ballast maintenance, thus another \$1,675.59 in annual maintenance savings by removing the ballast
- Customer will receive \$13,392.50 in estimated Mid-American Energy rebates, covering 40% of the project cost
- LED lighting supplied by Sitler's LED Supplies will have a 5 year replacement warranty backed by our 40 years in the lighting business

In the last year, Sitler's LED Supplies has supplied similar LED lighting to Senior Living establishments. A few to name are Atrium Village in Hills, Iowa and Riverside Senior Living in Charles City, Iowa.

As people's eyes age, they need higher illumination levels to prevent eyestrain and fatigue. Some benefits seniors experience from LED lighting include: natural circadian rhythms, better moods, better sleep, and greater overall comfort.

This retrofit will take 1-2 weeks to complete. The installation will be included on the invoice from Sitler's LED Supplies and the payment terms for the project will be 30 days.

Given the quick installation time, value of the lighting for seniors, incentives available, and savings once the lighting is installed, it is our recommendation that this lighting retrofit be completed as soon as possible.

This projects rebates are subject to change after December 31, 2016.

FINANCIAL: Total Project Cost to equal \$33,359.42. After the Mid-American Energy Rebate estimated at \$13,392.50, the estimated Out of Pocket Expense will be \$19,966.92.

Simple Payback: 1.4 years

Return on Investment: 70.3%

Net Present Value: \$140,905.00

Savings to Investment Ratio: 8.1

* Financial findings based on 10-year analysis and 3% inflation

STATUS: The project can be started within 2 weeks of the projects approval.

ACTION: Sitler's LED Supplies will wait on approval from Customer.