



# Little Rock Christian Academy LED Lighting Upgrade

## Upgraded and Looking Good!

In April of 2017, the Little Rock Christian Academy chose to use Excel Energy Group for the upgrade of their existing lighting system to LED. The project included a complete upgrade of their facilities to LED: approximately 2,500 interior fixtures and 100 exterior fixtures.

Replacement and retrofit of these fixtures reduced the lighting and maintenance costs by over **60%**--an annual savings of over **\$54,000**. Before Little Rock Christian was spending over **\$150,000** annually on lighting and now they spend approximately **\$63,000**.



Little Rock Christian Academy

## Project Quick Facts:

|                       |           |
|-----------------------|-----------|
| Total Facilities:     | 12        |
| Total Light Fixtures: | 2,673     |
| Total Sensors:        | 110       |
| Total Cost:           | \$273,021 |
| Total Incentive:      | \$53,322  |
| Annual Savings:       | \$54,911  |
| Payback:              | 4.0 years |

Energy efficiency is not the only goal for Excel Energy Group. We take pride in our projects and want the customer to have improved lighting as well as the efficiency. An example of improved lighting can be seen in the main lobby of the High School (right). Upgrading the lighting not only reduced the consumption by 63% but improved the color and look.

### Improved Coloring



There is also great opportunity for lighting efficiency outside of the facilities. Little Rock Christian also upgraded their building's wall pack and flood lighting to increase efficiency. Parking lot lighting is another great area (left) where efficiency and lighting levels can be improved. Some of the fixtures dropped from 455w all the way down to 150w with the new LED fixtures.

### Improved Lighting Levels



### THE BOTTOM LINE:

Excel was able to reduce the District's electricity by **477,400** kwh annually. That means LRCA will eliminate over **739,600 pounds** of carbon dioxide from the atmosphere **every year**—the equivalent of removing the emissions from burning **358,016** pounds of coal or **37,752** gallons of gasoline annually.

Decreased light  
wattage by an  
Average of  
**46%** in  
each area!

