



OVERVIEW

Clarksburg School in the South Carroll County Special School District of Clarksburg, TN is a Pre-K-12 school. Lighting throughout the school's campus was considerably degraded, with classrooms and common areas being dark and holistically unsuitable for learning. The school board and Director of Schools knew they needed a significant capital upgrade and were seeking a unique financial solution that would enable them to take the next step! They trusted Helios Energy to provide a cost-effective solution and arrange creative lease-financing to help fund the project. In the end, the school was able to minimize its cash outlay and use energy and maintenance savings to offset the cost of the project.

CHALLENGE

- Low-light levels (29 average foot candles in gym, 13 fc in common areas, and 25 in classrooms. Standard is 50 fc, 25 fc, and 40 fc, respectively)
- Maintenance team was changing fluorescent bulbs too much
- Exterior illumination was failing



SOLUTION

- Complete LED retrofit and replacement
- Installed flat panel fixtures in all classrooms
- Replace high wattage/maintenance metal halide gym fixtures with round LED high bay fixtures
- Lease-financing arranged to pay for the project

RESULT

- Energy consumption reduced by 64%
- Maintenance expense reduced by 98%
- Increased illumination and acuity in the office, common spaces, and classrooms by 72%, 92%, and 60%
- Found fixture solution to brighten the space and aesthetic in the main entrance

The Helios Energy Impact

Improved employee, student, and parent morale

Janitors stated could clean better, teachers can read better, and students having fewer migraines

10-year energy savings – **\$191,270**

10-year maintenance savings – **\$51,980**