

Donelson Christian Academy



OVERVIEW

Donelson Christian Academy of Nashville, TN is a Christian-based Pre-K-12 private school. Intrigued by the potential of clean energy, the school approached Helios as they were seeking a partner to upgrade existing fluorescent lighting fixtures, which necessitated continuous maintenance, save on energy costs, and provide an enhanced environment for student learning. In particular, administrators at DCA specifically sought an approach with flicker free LED lights to minimize headaches and other maladies for both students and teachers. They trusted Helios Energy to provide the most cost-effective solution.

CHALLENGE

- Low-light levels, particularly in classrooms and the gymnasium
- Time and labor spent on bulb changes was increasing
- Exterior illumination needed an upgrade
- Classes and activities much of the working day and evening
- Expedited timeline for installation



SOLUTION

- Complete LED retrofit and replacement, largely with flicker free LED lighting
- Replace high wattage/maintenance linear fluorescent gym fixtures with round LED high bay fixtures
- Worked off hours and evenings to finish install

RESULT

- Energy consumption reduced by 64%
- Maintenance expense reduced by 98%
- Increased illumination in the office, common spaces, and classrooms
- No disruption to students or activities during audit and installation process

The Helios Energy Impact

Improved employee, student, and parent morale

10-year energy savings –
\$424,720

10-year maintenance savings –
\$83,720

Total 10-year net savings –
\$363,745