

Case Study for:
Ideal Academy Public Charter School
Washington, D.C.



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Education

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“Through the adoption of LED lighting we look forward to continuing our efforts to become a more sustainable and energy efficient educational institution, while providing more productive and healthy learning environments for our students.”

- Dr. George Rutherford, Principle of Ideal Academy Public Charter School



LED LIGHTING TECHNOLOGY USED



T8 SEP LED Tubes
 T5 "Uni-Fit" Ballast-Ready LED Tubes

PRODUCT BENEFITS

OPERATIONAL

- 3X greater lamp life than fluorescent, supported by industry-leading 10-year warranty
- 70,000 hour lamp life reduces long-term maintenance costs
- Instant on, no warm-up time

SAFETY

- No glass
- Negligible light depreciation over time
- Superior light output

SUSTAINABILITY

- Lack of UV or IR minimizes concerns with fading or discoloration
- Mercury-free, allowing for non-hazardous disposal
- 100% recyclable

OPPORTUNITY

Ideal Academy Public Charter School, based in Washington D.C., is a community committed to excellence in education by providing a nurturing learning environment that enables its students to become competent and contributing global citizens. At Ideal Academy, the whole child is embraced - mind, body and character - providing them not only cognitive development, but also social, emotional, physical, and creative growth. The school desired to reduce energy usage and costs, optimize light levels, and eliminate maintenance expenses, as well as provide an improved learning environment through superior light output. To do so, the school decided to retrofit existing interior and exterior lighting with LED technology.

SOLUTION

Revolution Lighting's T8 SEP LED Tubes and Uni-Fit T5 Ballast-Ready LED Tubes were selected to replace Ideal Academy's existing interior and exterior lighting. Lighting controls, including occupancy sensors, were also installed throughout all classroom areas. The project sought to decrease energy consumption and reduce utility and maintenance costs, while providing a more optimal light level for both students and faculty. The retrofit, using Revolution Lighting's LED technologies, combined with control solutions, reduced Ideal Academy's monthly lighting costs by approximately 65%, with a projected savings of \$240,000 over 10 years. It also resulted in an annual reduction of approximately 87,000 kWh used by the school, which is the equivalent of planting 22 acres of trees.