



PHILIPS

Case Study

EvoKit LED retrofit

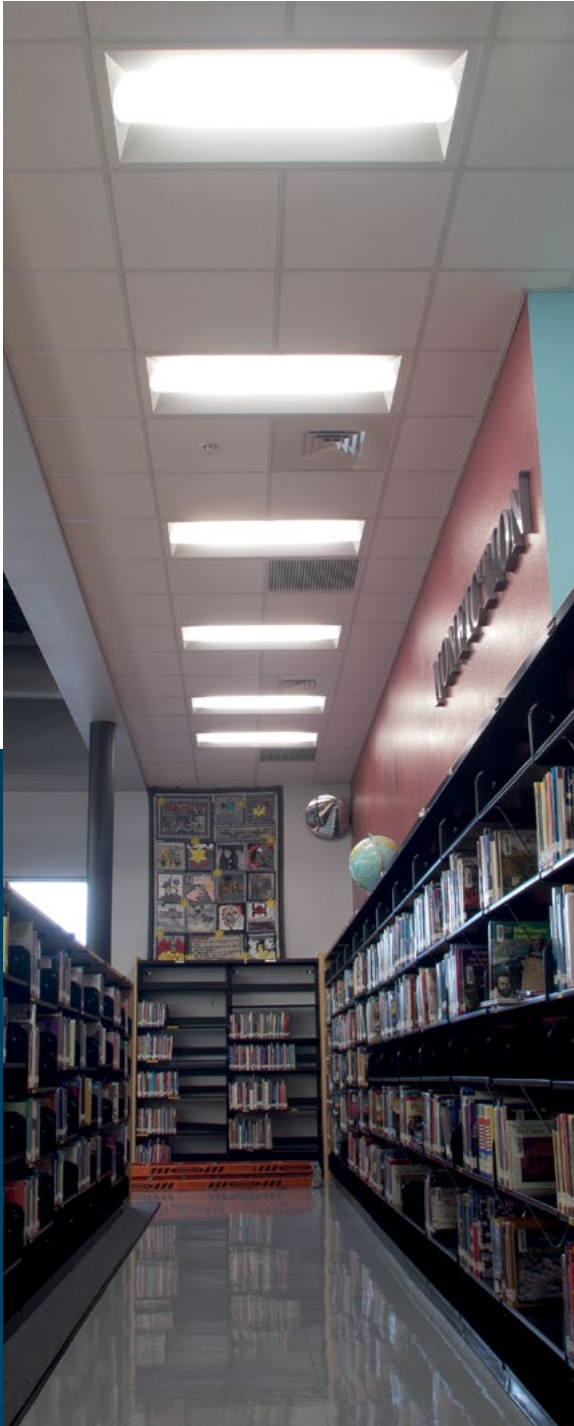
Commercial recessed lighting

Brookside Middle School, Sarasota County, Florida

A revitalized image with significant energy savings

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Willis Glasgow/Feature
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Seamless installation and improved light levels



Dependable energy savings can prove valuable to a school district, both by reducing carbon footprint and shifting more budget to academic needs. The Sarasota County School District is a major contender in energy savings. According to recent data from the Florida Department of Education, in the 2014-2015 school year Sarasota County School District spent 24 cents per square foot less on energy than the state average¹. Mike Siciliano, energy manager for the school district, played a large role in this success. After considerable research he recognized that when it came to lighting, replacing fluorescent luminaires with LED luminaires would lower electric costs and improve the quality of classrooms. “LEDs are the next frontier,” he said.

“When we saw the Philips EvoKit, we knew that it stood out on its own. It was way more advanced than anything else we had seen. It gives the classroom a new look without painting any walls, or putting in a new carpet. It’s a complete aesthetic upgrade to the entire classroom and learning environment”

– **Mike Siciliano,**
Energy Manager, Sarasota County School District

Mike subsequently oversaw a lighting retrofit operation for Brookside Middle School, one of the schools in the Sarasota County School District. The school district's facilities department met with a variety of manufacturers and tested their products over a six-month period. Graybar Electric Sarasota, a local Lighting Electrical Distributor with a strong track record and expertise with Philips EvoKit LED retrofit, introduced Philips Lighting to pitch the product.

Philips EvoKit also allowed for a simple and fast installation: each fixture fit seamlessly into the same troffers as the school's outdated fluorescents. **Philips Lighting retrofitted Brookside Middle School's 2,163 troffers in just five weeks over the summer, with no major disruption to the school's operations. NCN Electric had a 5 man crew working 5 days a week for 10 hours per day. The job took them 5 weeks to complete.**

Philips EvoKit works with Philips SimpleSet wireless programming technology that further enhances energy savings and capabilities. With this unified system, users can preset, adjust, and reduce the lumen output for connected LEDs – all through a smartphone-based app. From its initial installation, schools can program the best lighting levels for their classrooms.

Project Statistics



Simple installation:

- Ideal for saving install time and cost on large projects



Energy savings:

- Resulted in \$57,500 annual energy savings, and energy costs that were \$.24 per sq. ft less than the state average¹



User experience:

- Reduced glare and uniform light distribution



Connectivity:

- Wireless programming technology works with smartphone-based app for further energy savings

¹ "Sarasota Schools Light up Savings," Herald Tribune, Sept 17th 2016. <http://www.heraldtribune.com/news/20160917/sarasota-schools-lighting-up-savings>



Philips Lighting solution overview



Philips Product

EvoKit LED retrofit

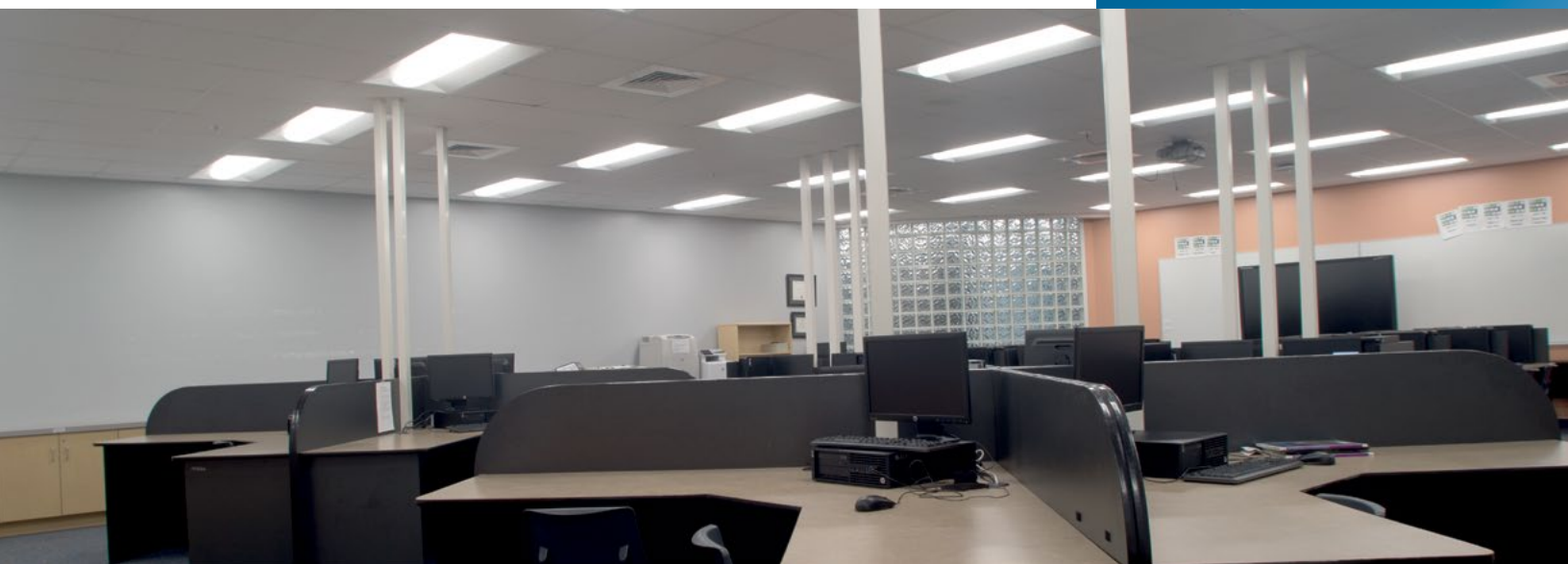
Project Credits

Client: Sarasota County Schools
Brookside Middle School

Electrical Contractor: NCN Electric

Electrical Distributor: Graybar Electric Sarasota

According to Mike, students and faculty love the Philips EvoKit because it reduces glare and creates a pleasant, uniform throw of light. Additionally, Philips EvoKit saves the school considerable costs, which can be redirected to support other learning initiatives that support student achievement. With a lifetime of up to 70,000 hours (L70 70,000 hours @ 35°C based on LED manufacturer's LM80 data), the LED fixtures reduce operating costs, repair, and replacement needs. Retrofitting the old fluorescent fixtures with Philips EvoKit saves Sarasota County School District approximately \$57,500 annually. Due to the success of the Philips Lighting solution, Sarasota County aims to retrofit 35-40 other schools in its district in the next five to seven years.



Philips EvoKit LED retrofit

The Philips EvoKit LED retrofit is an energy efficient, easy to install solution to upgrade your fluorescent troffers to LED. Compatible with both standard and narrow T-grids, it is a simple retrofit that will improve the look of your ceiling with its architectural styling without the need to actually break the ceiling plenum. EvoKit comes standard with dimming capabilities, making it perfect for applications such as offices, classrooms, healthcare facilities, retail space and more.

For more info on the product: www.philips.com/EvoKit

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