Featuring Silescent's Canopy LED Lighting Fixture 8 inch, 15 watts

# Silescent Canopy LED Lighting

Case Study III
Miami Country Day School
High School Outdoor Canopy

Fixture Replacements Miami, Florida





### Project Objectives...

Replace existing 32 watt circular fluorescent lamp fixtures with the specific goals of:

- Reducing energy consumption;
- Improve lighting quality and distribution overall;
- Provide Instant ON/OFF eliminating warm-up cycles;
- Reduce maintenance costs of ongoing re-lamping, cleaning and fixture replacements.

Silescent® combines LED technology with patent protected thermal management, electromechanical assembly and the industry's most advanced drive circuitry.

Project Performance... Total Savings achieved \$8,111/year (\$63/fixture/year)

Lighting Super Efficient, LED LIGHTING PRODUCTS

(Detailed analysis on reverse side)



### Project Scope...

### **EXISTING Circular Fluorescent Fixtures**

Fixtures: ......Circular fluorescent lamp fixture Lamp: .....32 watts/fixture

Number of Fixtures.....129

Ballast (Factor)......10% (3.2 watts/fixture)

Total Existing Wattage .....4,540 watts

#### **REPLACEMENT Silescent Fixtures**

Replacement Fixture: ......... Silescent 15 watt Canopy LED Fixture

Wattage: ..... 15 watts/fixture

Number of Fixtures: ...... 129

Total Replaced Wattage ..... 1,935 watts

## Summary of Savings...

**Energy Savings:** Considering equal usage (13 hrs/day x 365 days/yr)

**Maintenance Savings\*:** Bulb/Ballast/Lens part replacements + Labor to replace these items.

- One Bulb replacement/year/fixture @\$13.50/bulb = \$13.50/fixture x 129 = .............\$1,741/yr.
- Bulb replacement Labor: 20 min./bulb at \$30/hr (estimated) x 129 fixtures = ......\$1,290/vr.
- Each Ballast requires replacement every 3 years @ \$18/Ballast x 129 fixtures = ......\$774/yr.
- Ballast replacement Labor: 15 minutes/ballast at \$30/hr (est) x 129/3 fixtures/yr = .. \$322/yr.
- Each Lens replaced on average every 2yrs @ \$18/Lens x 129/2 fixtures/yr = .......\$1,161/yr.
- Lens replacement Labor: 30 min./Lens at \$30/hr (est.) x 129/2 fixtures/yr = ......\$968/yr.

\*All replacement parts and labor costs provided by Miami Country Day School, Facilities Manager

**TOTAL SAVINGS:** \$1,855 (energy) + \$3,676 (parts) + \$2,580 (labor)  $\approx$  \$8,111/year (\$63.00/fixture/yr)

### Additional Benefits...

- Full spectrum array based LED improves visual acuity;
- Wide dispersion beam spread provides even illumination with no dark shadows:
- Sanitary design allowing it to be easily cleaned;
- Extra-long 100,000 hour life rating maintenance free operation.



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