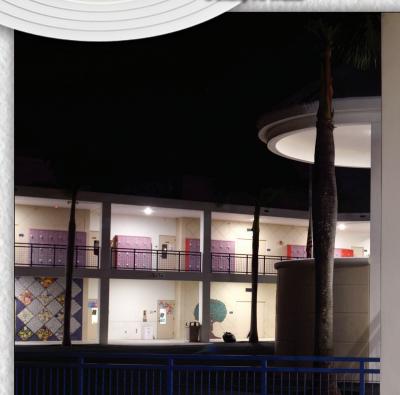
Featuring Silescent's Canopy LED Lighting Fixture 8 inch, 15 watts



# Before Retrofit



### Silescent Canopy LED Lighting Case Study II Miami Country Day School Lower School Outdoor Canopy

Fixture Replacements Miami, Florida

#### Project Objectives...

Replace existing 70 watt HID fixtures with the specific goals of:

After Retrofit

- 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<sup>®</sup> combines LED technology with patent protected thermal management, electromechanical assembly and the industry's most advanced drive circuitry.

Project Performance... Total Savings achieved \$15,111/year (\$139/fixture/year)

SUPER EFFICIENT, LED LIGHTING PRODUCTS

(Detailed analysis on reverse side)

#### Case Study II Page 2

## After Retrofit

### Project Scope...

#### **EXISTING HID Fixtures**

Fixtures: ..... HID Fixture Number of Fixtures...... 109 Ballast (Factor)..... 10% (7.0 watts/fixture) 

#### **REPLACEMENT Silescent Fixtures**

Replacement Fixture: ...... Silescent 15 watt Canopy LED Fixture Wattage: ..... 15 watts/fixture Number of Fixtures: ..... 109 Total Wattage, 109 fixtures: .... 1,635 watts

### Summary of Savings...

Energy Savings: Considering equal usage (13hrs/day x 365 days/year) Energy: (77w - 15w) x 109 x 13 hrs/day x 365 days/yr x \$.15/1,000watts = ...... \$4,810/year

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

- Two Bulb Replacements/year/fixture: \$35/bulb = \$70/fixture x 109 = ......\$7,630/yr.
- Labor 15 minutes/bulb at \$30/hr (est.) x 109 x 2 fixtures = ......\$1,635/yr.
- Ballast replacement Labor: 30 min./ballast at \$30/hr (est) x 109x10% fixtures/yr = ... \$164/yr. \*All replacement parts and labor costs provided by Miami Country Day School, Facilities Manager

**TOTAL SAVINGS:** \$4,810 (energy) + \$8,502 (parts) + \$1,799 (labor) ~ \$15,111/year (\$139.00/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 life rating maintenance free operation.

**ESCENT** Lighting Corporation



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