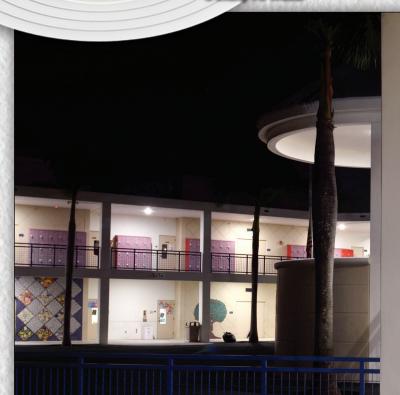
Featuring Silescent's Canopy LED Lighting Fixture 8 inch, 15 watts



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[®] 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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