Silescent® 2 x 2 LED Troffer Product Comparison 1B

2x4 x 3-tube fluorescent fixture replacement with Silescent 40 watt 2 x 2 LED Troffer in a 24 x 7 x 365 use environment

> Applications: Public Use Areas such as Hospital Hallways, Hotel Lobbies, Airports, etc...

Silescent's Circle-Lit™ LED Troffer 40 watts/fixture

Comparative Objectives...

Replace existing 2x4 Troffer with 3-tube x 32 watt fluorescent T5 lamp fixtures with the specific goals of:

- Reducing energy consumption;
- Improve lighting quality and distribution overall;

Sample Retrofit Installation

• 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.

Relative Performance...

Total Savings achieved \$154.09/fixture/year

Evaluation Scope...

EXISTING 3-Tube, 2x4 Troffer Fixtures

REPLACEMENT Silescent Fixtures

Replacement FixtureSilescent 40 watt 2 x 2 LED Troffer Wattage40 watts/fixture



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Summary of Savings...

Energy Savings: Considering equal usage	
Considering Equal Usage:	
Energy Savings: (106w – 40w) x 24 hrs/day x 364 days/yr x \$.15/1,000watts =	. \$86.49/year/fixture
Added Savings from HVAC Cost Reductions:	
Energy Savings: 30% savings (est.) of energy used to be realized from A/C =	. \$25.95/year/fixture
TOTAL Energy Savings: \$86.49/year/fixture + \$25.95/year/fixture =	\$112.44/year/fixture

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

One Bulb replacement/year/fixture @ \$13.50/bulb = \$13.50/year/fixture Bulb replacement Labor: 15 min./bulb at \$30/hr (est.) x 1 bulb/year/fixture = \$7.50 /year/fixture Ballast replacement Labor: 15 minutes/ballast at \$30/hr (est) x 1/3 fixtures/yr = \$2.50/year/fixture Each Lens replaced on average every 2yrs @ \$18/Lens x 1/2 fixtures/yr = \$9.00/year/fixture Lens replacement Labor: 15 min./Lens at \$30/hr (est.) x 1/2 fixtures/yr = \$3.75/year/fixture *All replacement parts, labor costs and operating assumptions provided by gualified facilities manager

TOTAL SAVINGS: \$112.44 (energy) + \$27.90 (parts) + \$13.75 (Labor) \approx \$154.09/year/fixture

Additional Benefits...

- Full spectrum array based LED improves visual acuity;
- Wide dispersion beam spread provides even illumination with no dark shadows;

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- Sanitary design allowing it to be easily cleaned;
- Extra-long 100,000 hour life rating maintenance free operation.



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