

Silescent® 2 x 2 LED Troffer

Product Comparison 1A

2x4 x 3-tube fluorescent fixture replacement with Silescent 40 watt 2 x 2 LED Troffer

Applications:

Typical Business Environment, School Classroom, Hallway' Hospital, etc.

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;
- 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 \$93.85/fixture/year

Evaluation Scope...

EXISTING 3-Tube, 2x4 Troffer Fixtures

Fixtures	Fluorescent 2x4 Troffer fixtures, 120VACin
	32 watt tubes x 3 = 96 watts/fixture
	10% (10 watts/fixture)
Operating Use:	13 hrs/day x 6 days/week x 52 weeks/year

REPLACEMENT Silescent Fixtures

Replacement Fixture	Silescent 40 watt 2 x 2 LED Troffer
Wattage	40 watts/fixture



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Summary of Savings...

Energy Savings: Considering equal usage Considering Equal Usage: Energy Savings: (106w – 40w) x 13 hrs/day x 312 days/yr x \$.15/1,000watts = Added Savings from HVAC Cost Reductions:	\$40.15/year/fixture			
Energy Savings: 30% savings (est.) of energy used to be realized from A/C =	\$12.05/year/fixture			
TOTAL Energy Savings: \$40.15/year/fixture + \$12.05/year/fixture =	\$52.20/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			
Each Ballast requires replacement every 3 years @ \$18/Ballast x 1/3 fixtures =	\$5.40/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 qualified facilities manager

TOTAL SAVINGS: \$52.20 (energy) + \$27.90 (parts) + \$13.75 (Labor) \approx \$93.85/year/fixture

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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