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Reprint

nyrej.com

January 2014

## All important first impressions – Commercial lighting LED upgrades



George Crawford

first impressions can come with excellent paybacks.

Buildings with older lighting installations that include florescent T 12s are excellent upgrade candidates. However, it doesn't stop there. Because LED lighting options are ultra efficient, paybacks are "compelling" even when retrofitting recent lighting installations. And by "compelling" we're talking in terms of two year paybacks or less. Additionally, there are LED retro-fit financing programs available along with Con Ed and NYSERDA incentives. Bottom line - a LED retro-fit can be structured with no out of pocket dollars and a positive cash flow. The other good news - LED lamps look great.

A snapshot of the fluorescent landscape is in this chart.

While LED lamps are more expensive than T 8 fluorescents (10 times more expensive to be exact), once the two-year break even is reached, the savings going for-

ANNUAL OPERATING COST				
Lamp	No. of Hours	Cost	Total	Life Span
T 12s 48 Watts	4,680	0.16	\$29.95	No longer in production
T 8s 32 Watts	4,680	0.16	\$24.69	5,000-8,000 hours
T 5s 54 Watts	4,680	0.16	\$40.44	5,000-8,000 hours
<b>LED 14 Watts</b>	<b>4,680</b>	<b>0.16</b>	<b>\$10.86</b>	<b>70,000 hours</b>
This example is calculated on a 5 day week/18 hours per day. The LED calculations are based on the Philips LED T8 Instantfit lamp.				

ward is significant because of the ultra-low LED energy consumption and the long life of the lamps.

Another hidden advantage is electrical load reduction. Many buildings with newer tenancies are finding that new tenants require more electrical service than previous tenants. As a result, buildings often face an expensive problem – the need to increase overall building electrical service. LED retrofits provide a cost

effective solution with their lower electrical loads. Lower lighting loads offset the higher load requirements of new tenancies and help avoid the significant costs associated with increasing overall building electrical service. Faster than the speed of light – LED to the rescue.

**George Crawford is a principal at NYG Green Partners, NYC. Call 212-645-0025 or email [gcrawford@greenpartnersny.com](mailto:gcrawford@greenpartnersny.com)**

Making the switch from fluorescent tubes to a green-friendly, energysaving alternative, just got easier.

**Rick Lindemann**  
Business Development Manager  
[rickl@ledsource.com](mailto:rickl@ledsource.com)

**LED Source, LLC**  
[www.LEDsource.com](http://www.LEDsource.com)

toll free: +1.866.900.4LED ~ facsimile: +1.561.273.1004  
mobile ph: +1.201.233.5475 ~ direct ph: +1.561.273.1030