

Benefits of ICETRON® Lamps at a glance

- Extremely long re-lamping intervals
- Bright, flicker free light
- Excellent CRI
- Ideal for low profile luminaires
- Comprehensive system warranty

Don't be surprised if you forget they're there.

One hundred thousand hour, high performance ICETRON® Electrodeless fluorescent lamps last so long that the City of Toronto might not have to change them again for 20 years.



SEE THE WORLD IN A NEW LIGHT

SYLVANIA



Initial Situation

The North York Civic Centre offers many services to Toronto residents including, animal control, a public library and a wedding gallery. The Civic Centre also serves as a meeting place for the North York community council to deal with neighbourhood issues.

A total of 91 light fixtures were suspended from the Civic Centre ceiling to light up the areas below. Each fixture contained a 400 watt metal halide lamp. Lights are turned on at this facility for 18 hours a day, 7 days a week. The existing metal halide lamps last approximately 20,000 hours. The fixtures are not easily accessible therefore, the cost to replace these lamps every four or five years was an enormous expenditure for the City of Toronto, involving the erection of special scaffolding platforms. Reduced maintenance costs were the primary impetus for the City, with the assistance of Toronto Hydro Energy Services (TH Energy), to find a new lighting system for the Civic Centre. TH Energy designed a system which would include new lighting technology to lower costs and improve lighting, as well as reduce energy consumption. Energy Network Services Inc. was the successful bidder and awarded the contract to install the new lighting system.

What goes up, must come down...someday.

After a thorough investigation of the available technologies from different manufacturers, the group selected ICETRON electrodeless fluorescent lamps from OSRAM SYLVANIA. The innovative induction technology used in the ICETRON

lamp does not require the usual electrodes to produce light. This means there are no parts that can wear out, making it an extremely reliable lamp—the SYLVANIA ICETRON is rated at 100,000 hours of life. Because it uses electronic ballasts, the ICETRON enjoys the benefits associated with linear fluorescent lamps, such as instant startup and pleasant, flicker-free light.

To house the lamps, Thomas Lighting supplied new 2 x 150 watt induction fixtures, which are similar in style to the originals thus, helping to maintain the architectural integrity of the building. Together, the lamp and fixture benefits include improved light output and reduced energy, in addition to the lamp's amazing life expectancy.

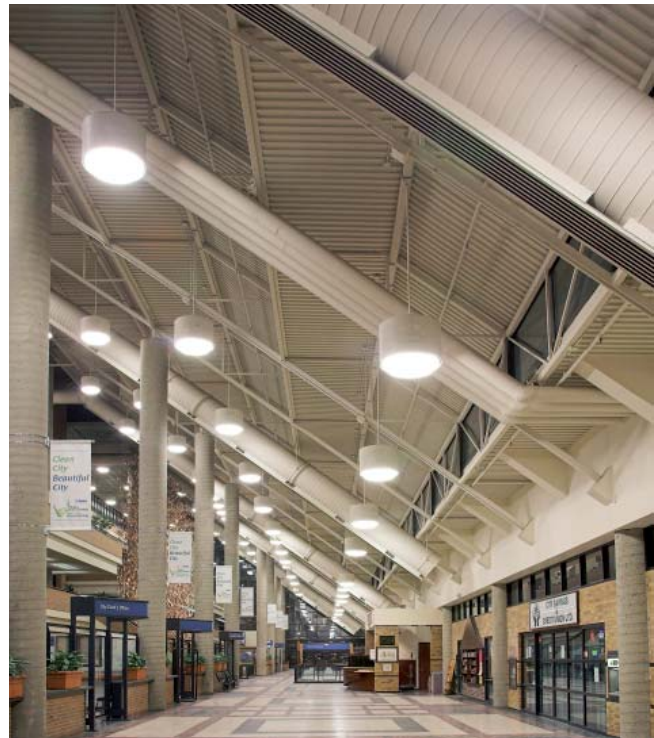
Results

The Civic Centre will reduce its energy consumption, thanks to the reduction in wattage from 460 watts for the metal halide lamps to 314 watts for the ICETRON. However, the real cost savings will come from the lack of maintenance required. Instead of re-lamping the facility every four or five years, the ICETRON lamps will last up to 20 years at current usage levels. The reduced maintenance has the potential to save the City more than half a million dollars over the life of the lamps.

Thanks to the life span of the SYLVANIA ICETRON, it'll be a once-a-generation job to change the light bulbs.



Before: The previous metal halide lamps in the ceiling needed to be replaced every 4-5 years.



After: SYLVANIA ICETRON lasts 5 times longer and uses less energy without compromising light output.