

Following are excerpts from the 2005 National Electrical Code and the Lighting Systems Division of the National Electrical Manufacturers Association bulletin.

A WORD TO THE WISE SHOULD BE SUFFICIENT

**PER THE 2005 NATIONAL ELECTRICAL CODE SECTION 410.74
ARTICLE 410 — LUMINAIRES (LIGHTING FIXTURES), LAMP HOLDERS, AND LAMPS**

*“Subsection (5) **Metal Halide Lamp Containment** . Luminaires (fix tures) that use a metal halide lamp other than a thick-glass parabolic reflector lamp (PAR) shall be provided with a containment barrier that encloses the lamp, or shall be provided with a physical means that only allows the use of a lamp that is Type O”.*

**From the National Electrical Manufacturers Association
Lighting Systems Division Bulletin LSD 31-2004**

“... Implications of this 2005 NEC Change

Existing installations that use open luminaires and Type - S lamps will continue to exist, even in municipalities that adopt the 2005 NEC. Type - S metal halide lamps will continue to be available for those customers that wish to continue to use them in existing open luminaires and in accordance with appropriate lamp and luminaire manufacturer warnings and instructions.

Existing open luminaires will accommodate Type - O lamps without a lampholder change. Existing enclosed luminaires will accommodate Type - O, S, or E lamps without a lampholder change.

It is expected over time that the mix of metal halide lamps available will naturally shift to reflect the adoption of the 2005 NEC and that there will be an associated shift to luminaires that are either enclosed or that only accept Type - O lamps.

When operated in accordance with manufacturer's warnings and instructions, open luminaires with Type- S lamps remain a safe and effective lighting alternative for many applications. However, when warnings and instructions are not heeded, the operation of an open luminaire with a Type - S lamp may potentially present an elevated level of risk of fire (in some applications) that would not exist with lighting systems employing either an enclosed luminaire or an open luminaire with a Type - O lamp.”

By installing The Light Edge, Inc. RAPTOR™ T5/HO Fluorescent luminaires the problems or potential liability issues associated with Metal-Halide luminaires as detailed above are virtually eliminated.

Other benefits of T5/HO are 55% reduction of energy, no-delay starting, reduced maintenance costs, color rendition index is improved by as much as 30%, lumen output is maintained at 96% and lamp life is increased by 50% at 12 hours per start.