



I-BEAM™ System Frequently Asked Questions

1. What is unique about the I-BEAM™ System?

A. I-BEAM is the first T5HO fluorescent high bay system that is UL/CL Listed to operate in environments up to 55°C (131°F), and is backed by a five-year warranty.

2. How does that compare to other fluorescent high bay products?

A. By comparison, common fluorescent high bay fixtures are only UL Listed for operation up to 25°C, and those rated up to 35°C typically have warranties reduced from five to three years.

3. Why is the ability to operate in higher temperatures so important?

A. Many facilities such as distribution centers, warehouses and industrial sites are either partially conditioned or not conditioned at all. When outside temperatures rise above 85°F, inside ambient temperatures in these facilities can reach upwards of 130°F near the ceiling lighting fixtures.

Operating standard fluorescent fixtures in ambient temperatures above 25°C (77°F) is risky. Higher ambient temperatures drive internal component temperatures above limits established by UL safety standards; ballast temperatures in excess of 90°C void manufacturer's warranty and increase maintenance costs by significantly shortening ballast life.

4. How does the I-BEAM System address temperature?

A. Lithonia Lighting partnered with Advance to develop T5HO Cool Running™ Technology, an innovative thermal design system to reduce ballast operating temperature.

T5HO Cool Running Technology optimizes three key elements as part of its design to improve thermal performance:

- Efficiency: Less heat is generated around components and trapped by the fixture.
- Conduction: Heat is transported away quickly from temperature sensitive components.
- Convection: Waste heat is more efficiently dissipated away from fixture to surroundings.

The blue colored ballast symbolizes the heat dissipation and “cool running” properties of the I-BEAM System.

5. What are the benefits to using fluorescent high bays?

A. Fluorescent high bays provide multiple benefits over HID high bays, including substantial energy savings and enhanced light quality. With the ability to operate in higher ambient temperatures, I-BEAM provides the best value for high bay applications whether the space is conditioned or not.

Additional benefits of using fluorescent over HID high bays include: lower installation costs, lower-profile, instant-on/restrike, multiple lamps, improved color, less sound, lower mercury content and the option to use motions sensors and/or daylight harvesting.

6. **How significant are the energy savings and efficiency with I-BEAM?**
A. I-BEAM delivers up to 50% energy savings over 400 watt metal halide. Occupancy sensors and multi-lamp switching will further reduce energy consumption. In addition, TCLP compliant lamps reduce recycling costs and mercury disposal.
7. **How does I-BEAM enhance lighting quality?**
A. I-BEAM uses advanced optical control to deliver a superior quality visual environment without sacrificing reliability and efficiency.
- Enhanced color spectrum increases perceived light levels.
 - Lamps maintain at least 90% of initial lumen output throughout life.
 - Vertical illumination is improved and puts light where it's needed most.
 - Superior uniformity reduces shadows and "hot spots."
8. **What is the warranty for I-BEAM?**
A. I-BEAM comes with an industry-leading five-year ballast warranty from Advance at 55°C, and a three-year warranty at 65°C.
- All in-warranty ballast replacements will be handled through Advance's existing process. All warranty inquiries should be directed to Advance's toll-free Technical & Warranty Support Hotline at (800) 322-2086 (or local number (847) 390-5000) or to e-mail address tech.service.rosemont@philips.com.
9. **Is T5HO Cool Running Technology available through other manufacturers?**
A. No. Lithonia Lighting and Advance partnered to develop T5HO Cool Running Technology to attain 55°C operation with a five-year warranty. It is only available with Advance and Lithonia Lighting's I-BEAM System.
10. **What about choosing the right lamp?**
A. T8 and T5HO fluorescent lamps are designed to provide full output in an acceptable light output over a wide temperature range.
- **T8 fixtures** provide 80% or more light output over the range from 0°C – 25°C, and are UL Listed for ambiance up to 25°C. T8 not available with Cool Running Technology.
 - **T5HO fixtures** provide 80% or more light output over the range of 5°C – 50°C, and are UL Listed for ambient temperatures up to 65°C.
 - When higher light outputs are required over a wider range of temperatures, Lithonia Lighting recommends the use of **amalgam lamps** which operate at a peak efficiency over a temperature range from -5°C – 65°C. When temperatures are expected below -5°C, Lithonia recommends the use of metal halide.
- All manufacturers' brands of 54-Watt T5HO lamps will operate on this unique system.
11. **What is the UL listing for the T8 version of I-BEAM?**
A. 25°C



12. **Where is I-BEAM produced?**
 - A. Lithonia Lighting's Cochran, GA facility.

13. **Is I-BEAM available with lamps installed?**
 - A. Lithonia highly recommends that I-BEAM is shipped with lamps. Lithonia offers a full range of generic lamps including amalgam lamps for factory installation.