



**VENTURE**  
**LIGHTING**

**Venture's Uni-Form® pulse start metal halide lighting systems are the brighter solution:**

- Greater energy savings!
- More light: Higher system lumens per watt
- Lower dirt depreciation factor
- No decline in efficacy with temperature fluctuations
- Well suited for both indoor and outdoor applications
- Lower first cost and maintenance costs
- Better optics with a compact light source

**UNI-FORM®**  
PULSE START METAL HALIDE LIGHTING SYSTEMS

**The Better Solution for High Bay Lighting**

**(800) 451-2606**  
**or (440) 248-3510**

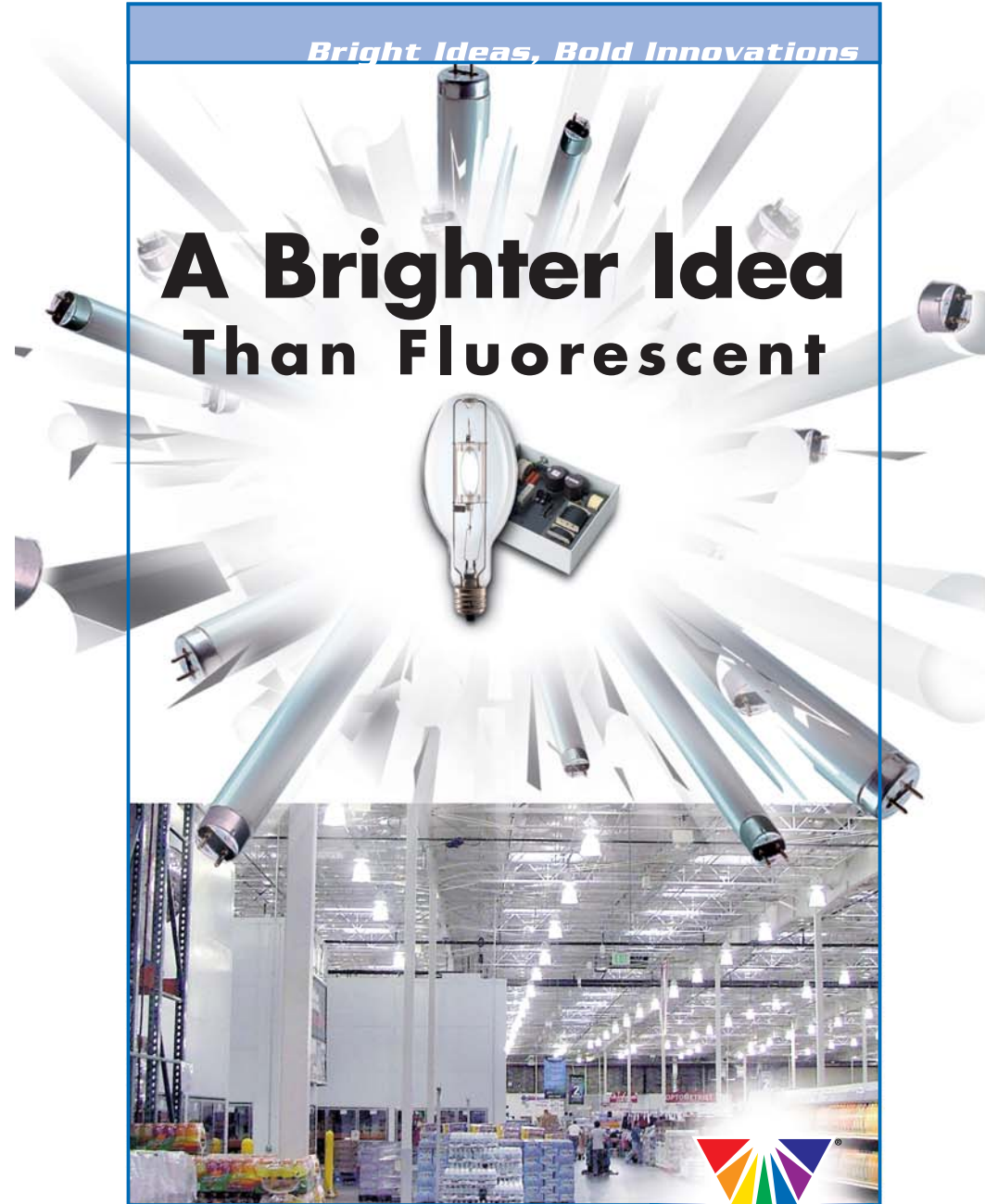
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**VentureLighting.com**

VLH0845B2-0814

*Bright Ideas, Bold Innovations*

# A Brighter Idea Than Fluorescent



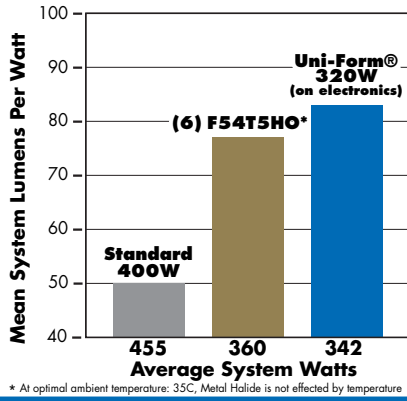
Uni-Form® Pulse Start Metal Halide Lighting Systems by



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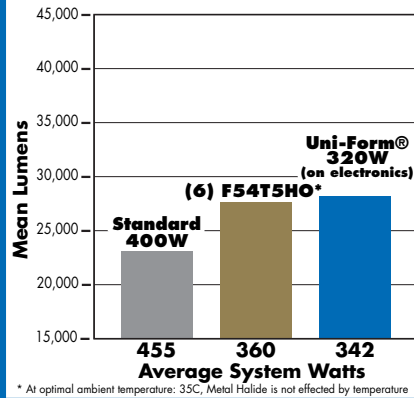
# Energy Savings

## Efficiency Comparison



Uni-Form® pulse start metal halide lighting systems are more efficient light sources, especially when operating with Ventronic™ ballasts. Compared to probe start metal halide or many T5HO systems, Uni-Form systems not only are more efficient, but are superior at saving energy.

## Mean Lumen Comparison



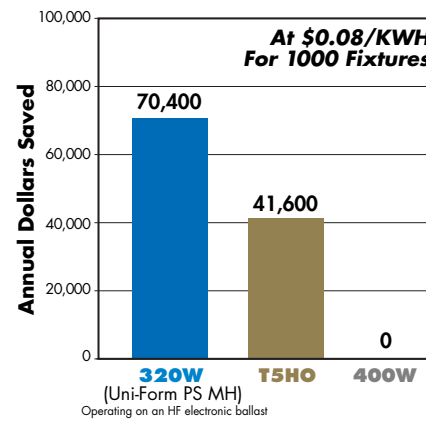
## Retrofit and Save

Your local utility company may offer rebates when you upgrade to more efficient lighting. Your payback timeframe on these systems could be significantly reduced. Visit the "Energy Savings" section of Venture's website or call Venture today for more details about rebates and start saving up to 45% on your energy costs!



[VentureLighting.com/Rebates](http://VentureLighting.com/Rebates)

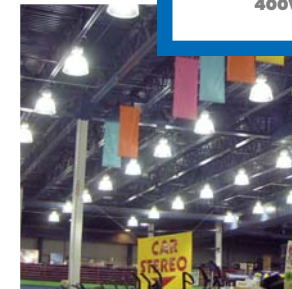
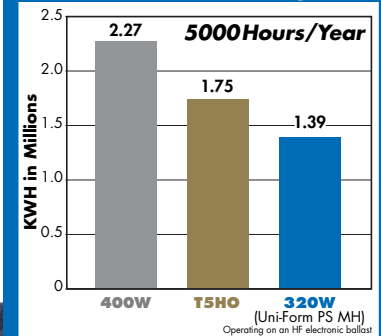
## Energy Savings



## Lower kWh Usage Equals Energy Savings!

Based on a new construction layout to equal the same light levels as a probe start 400 watt probe start metal halide system, the Uni-Form pulse start system gives greater energy savings than fluorescent lighting.

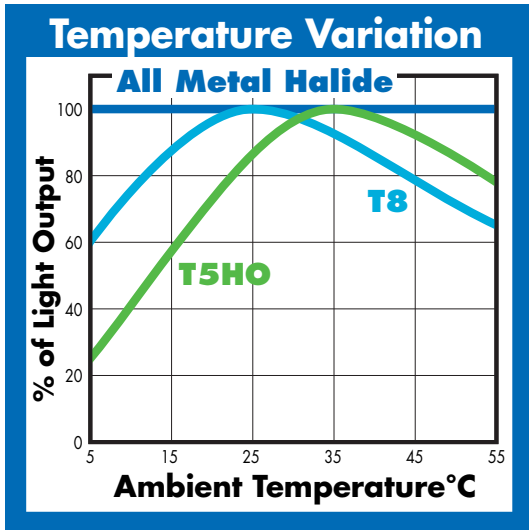
## Total KWH Usage



# More Reliable



Ceiling temperature does not affect the excellent light output in this high bay application utilizing Venture's electronic Uni-Form<sup>®</sup> pulse start technology.



**Better Cold Starting**  
Uni-Form technology offers more reliable starting at extreme temperatures, down to -40°C (-40°F). It's perfect for winter weather or warehouse freezer conditions.

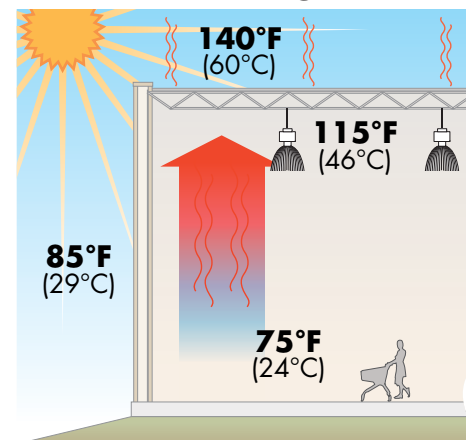
## The Effect of Temperature Variation

Metal halide technology is not affected by temperature. Compare this to fluorescent lighting with light output adversely affected by temperature changes.

% of Light @	45°C (113°F)	55°C (131°F)
MH	100%	100%
T8	79%	65%
T5	92%	79%

Most HID Industrial fixtures are rated for 55° C Ambient temperatures

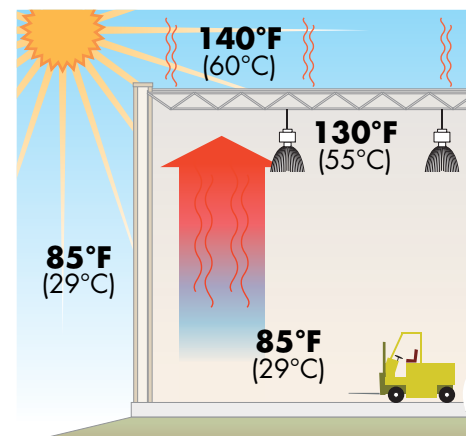
## Conditioned Big Box Retail



### Temperature Does Matter

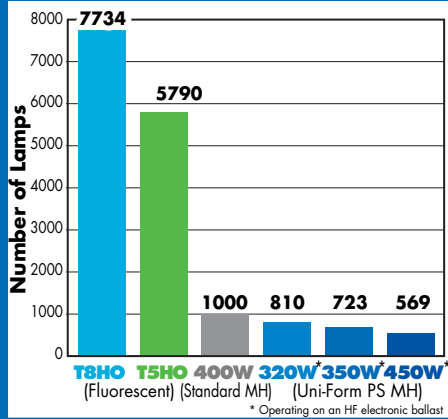
- Even on a comfortable summer day, temperature near the ceiling of a high bay application may reach 130° F and beyond, greatly reducing the light output of a fluorescent fixture, but not Venture's Uni-Form system
- Whether it's a warehouse or a big box retail, air conditioned or unconditioned, metal halide is not affected by a change in temperature

## Unconditioned Warehouse



# Less Maintenance

## # Of Lamps For Same Light



## Less Labor Means Less Costs

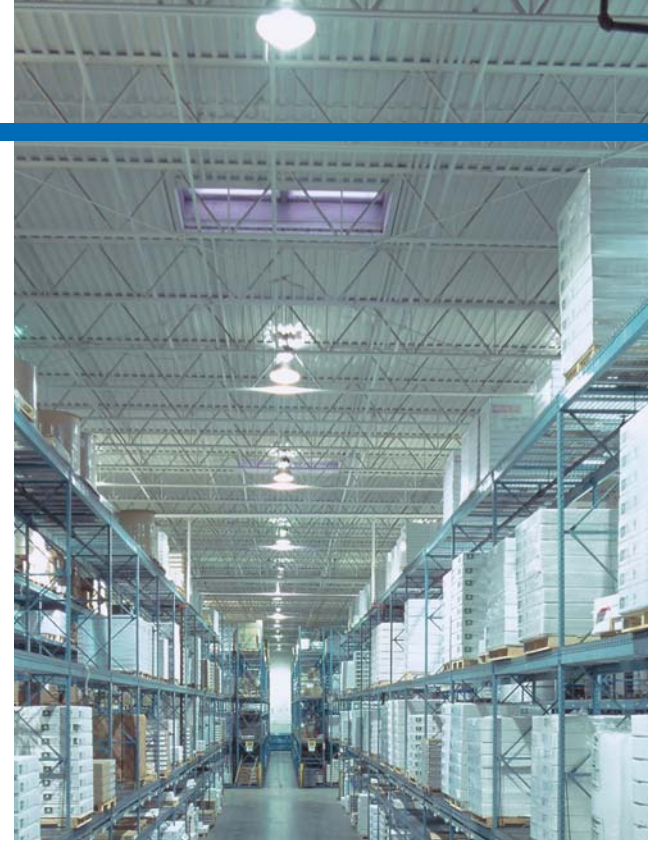
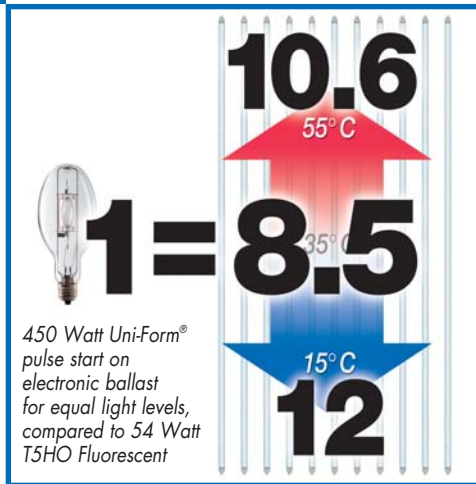
Utilizing *Uni-Form* systems means fewer fixtures and less lamps, resulting in fewer re-lamps and less cleaning, retrofitting or rewiring.

Compared to *Uni-Form* pulse start systems, **T5HO** requires:

- **8-12** times as many **lamps**, depending on the lamp temperature
- **4-5** times as many **ballasts**
- **2-3** times as many **luminaires**

### *Uni-Form* systems are less maintenance:

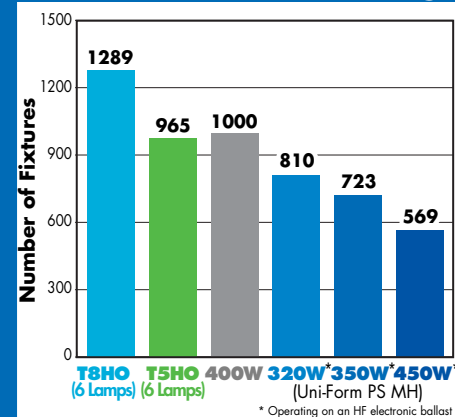
- Less horizontal surface to clean
- Less re-lamping and general maintenance
- Lower energy costs for the same light



And reap the added benefits of daylight harvesting with *Uni-Form* systems

## Achieve Same Light Levels While Using Fewer Lamps with *Uni-Form*<sup>®</sup> Systems

## # Of Fixtures For Same Light



# Less Cost

## Less Cost

### For Retrofit:

- In a one-to-one fixture replacement, fluorescent lighting has 10% to 30% higher material cost
- Easier to retrofit from traditional MH or HPS. Just change the ballast or the luminaire
  - No massive re-wiring
- More retrofit opportunities due to fewer fixtures and a variety of mounting height options.

### For New Construction:

- Based on previous examples, fluorescent lighting uses up to 56% more luminaires
  - Pulse start metal halide has lower up-front cost
- Fewer spot replacements - Lower labor cost and higher average light levels



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LIGHTING

## Better Optics

Put the Light Where You Want It!

- Compact light source makes it easy to control beam angles
- Not limited by ceiling heights
- Wider variety of applications
- Reflector options offering a variety of beam angles to optimize the light in any application
- Field adjustable beam angles available on most HID fixtures
- Compared to T5 fluorescent luminaires which have wide fixed beam patterns that are easily intercepted by obstructions - *Uni-Form* pulse start delivers more light to targeted areas



## Dimming

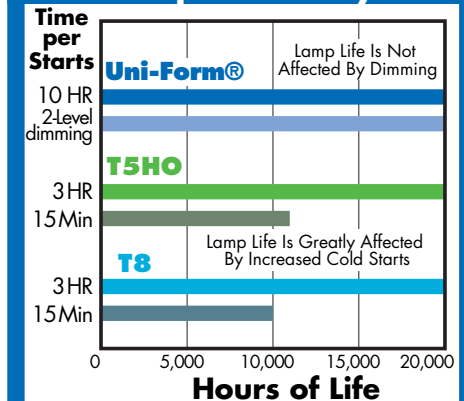
- Save even more energy by dimming down to 50% lamp power with *Uni-Form* pulse start lamps on approved high frequency electronic ballasts
- Achieve even higher system efficacy using Ventronic™ HF ballasts.

Dimming does not affect lamp life, compared to shutting off of fluorescent lighting, which shortens lamp life and increases costs

- Saves energy and maintains functional light levels for safety and aesthetics



## Lamp Mortality



# Chosen Over T5

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To save energy, a manufacturer of commercial jet airliners was shutting down alternating rows of high bay lighting at two Southern California facilities. While this reduced costs, it also limited visibility for employees in many of the plants' work areas. The plants utilized probe start 1000 watt metal halide fixtures that were generating approximately 30 foot-candles of light. The company researched for a long-term lighting solution that would use less electricity but not decrease, and perhaps even enhance, lighting levels.

Working with several electrical product distributors, two innovative solutions were considered: T5HO (high output) fluorescent silhouette lamps with electronic ballasts; and Venture's 450 watt Uni-Form<sup>®</sup> lamps on state-of-the-art electronic ballasts. Eight samples of each of the proposals were installed and tested in the Long Beach facility.

## The Uni-Form lamp was chosen over the T5HO fluorescent.

The T5HO lamps generated 38-40 foot-candles of light and a 50 percent reduction in energy usage. However, Venture's 450 watt Uni-Form lamps with the high-frequency electronic ballasts resulted in 50 foot-candles and approximately a 60 percent reduction in electricity usage. Additionally, since fluorescent light fixture optics were not precise enough for the high-bay application, the light patterns of the T5HO solution were too wide and did not meet the minimum light necessary for the facility. The solution utilizing Venture's product had optics capable of focusing the light at the workspace, providing more light where the workers needed it.

Venture's Uni-Form electronic systems have dimming capabilities, delivering tremendous energy savings. Dimming helps with load shedding during peak demand periods and, thus, can eliminate paying very high peak demand charges from utilities which can be many times more than standard electricity charges.

### Existing System:

1000 watt MH;  
30 foot-candles

### Proposed (8) Lamp T5HO:

38-40 foot-candles,  
50% energy savings

### Venture's Uni-Form Lamp,

the chosen solution:  
50 foot-candles;  
60% energy savings



*"The new brighter light was a definite improvement over the previous lighting.... (it) made an immediate impact on plant employees and the operating expenses..."*

*-Satisfied Customer*

### The Challenge:

Decrease energy costs while maintaining, or even enhancing, light levels

**The Solution:** Venture's 450 watt Uni-Form<sup>®</sup> lamp for use on electronic ballast

**Location:** Two Southern California facilities of a manufacturer of jet airliners

The result of replacing the existing system was an increased light output of 20 foot candles, allowing the plant to use 20 percent fewer fixtures to maintain identical light levels. According to the company, 100 percent of the costs of the new fixtures and lamps were recouped in less than two years.



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