

Bright Ideas, Bold Innovations

Retrofit and **\$AVE!**



Energy Saving Solutions From

**VENTURE[®]
LIGHTING**

Energy Savings Solutions

Venture's 875W Pulse Start System

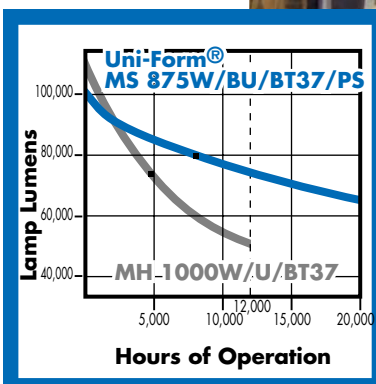
Retrofit to less fixtures



Before



After



Venture's distribution facility, located in Streetsboro, Ohio. See it for yourself, visit Venture Lighting Institute and see the lighting comparisons on display!

Replace Probe Start 1000W

- 100,000 Initial Lumens
- 80,000 Mean Lumens
- Save up to **155** system watts per luminaire
- Achieve **50% more** lumen output at 12,000 hours
- Longer Lamp Life: **20,000+ hours**
- More Reliable: At end of rated life **70%** of the lamps initially installed will be operating

Concrete Example:

Venture's recently acquired distribution center, located in Streetsboro, Ohio, replaced (20) 1000 watt probe start metal halide fixtures with (6) Venture's 875 watt pulse start metal halide fixtures in the shipping department area.

Comparison:

Existing System:

(20) 1000 Watt, enclosed rated, probe start metal halide
Energy Cost: **\$8,640/year** (based on 5000 hrs/yr at \$0.08/KWH)
Footcandle average: **15fc**

Venture Lighting solution, the chosen solution:

(6) 875 Watt, open-rated pulse start metal halide
Energy Cost: **\$2,256/year** (based on 5000 hrs/yr at \$0.08/KWH)
Footcandle average: **38fc**

Conclusions:

- The Venture Energy Saving 875W Solution:
- Saved 80,000 KWH of energy per year, approximately
 - **Saved \$6,384** per year
 - Increased the light levels over 150% (2.5 times the illuminance level)
 - Reduced the number of fixtures from 20 to 6
 - Saved over 140 watts of energy per fixture

Venture's Uni-Form® 320W Pulse Start System

Retrofit 1 to 1 fixtures

Replace Probe Start 400W

- 33,000 Initial Lumens
- 26,000 Mean Lumens
- Save up to **106** system watts per luminaire
- Achieve 13% more lumen output at 8,000 hours and almost 30% more lumen output at 20,000 hours
- **Longer lamp life** and less mortality: Rated for **20,000+ hours**; At end of rated life **70%** of the lamps initially installed will be operating

Concrete Example:

Lighting Western Pennsylvania's Montour School District's five gymnasiums (totaling 37,000 square feet) put a strain on their annual energy budget of \$650,000. They had a requirement to reduce costs by 16 percent. Venture Lighting's Uni-Form® 320W system helped exceed this requirement.

By using Venture Lighting's 320 watt Uni-Form lamps and Opti-Wave® ballasts, Montour will save in excess of \$1 million over a 10-year span. The gyms had a combined total of 123 lamps. Previously, these facilities used a combination of 400 watt probe start metal halide and mercury vapor lamps.

Energy consumption was further reduced through the use of an occupancy sensor-based, bi-level control lighting system installed in all five gyms.

Comparison:

Existing System:

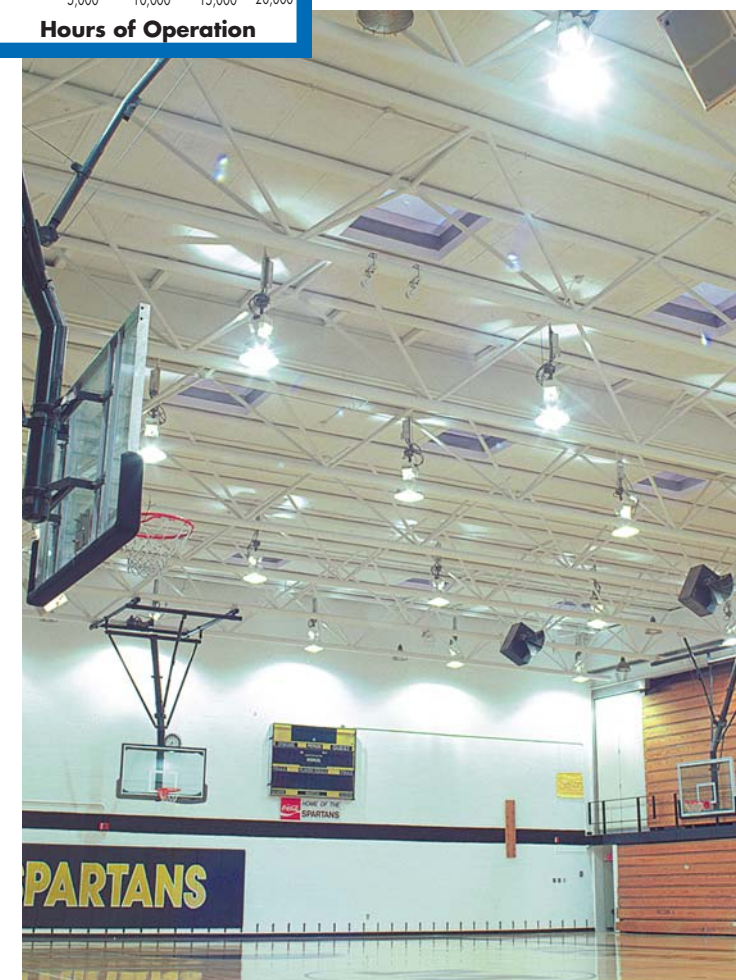
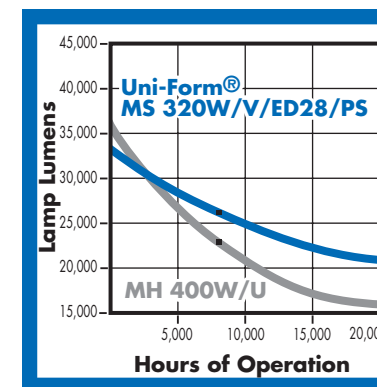
400 Watt, enclosed rated, probe start metal halide
System Watts: 455 per fixture
Footcandle average: **40-45fc**

Venture Lighting solution, the chosen solution:

320 Watt Uni-Form pulse start metal halide
System Watts: 349 per fixture
Footcandle average: **60-64fc**

Conclusions:

- The Venture's 320W Uni-Form Pulse Start Solution:
- **Saved 25%** energy by switching to 320W pulse start
 - **Saved an additional 50%** by using bi-level dimming
 - Increased the light levels 150% (2.5 times the illuminance level)
 - Where mercury vapor was replaced, light levels increased 180%



The Job: Montour School District, Western Pennsylvania

The Solution: Venture's 320W Uni-Form lamps with Opti-Wave Ballasts



Energy Saving Retrofit Kits



Venture's retrofit electronic ballast housing

Compared to probe start, magnetic metal halide systems, Venture's Uni-Form® electronic pulse start systems offer:

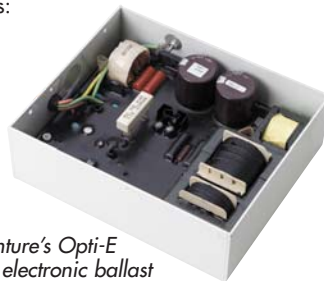
- 80% survival at end of rated life, a 45% improvement over standard metal halide
- Quiet, "A" sound rated, high frequency electronic system
- Highest ballast efficiency >95%
- 90% lumen maintenance

- Superior lamp wattage regulation, 0.5% lamp voltage drop given a 10% drop in input line voltage
- Available in a ready-to-hang enclosed ballast housing
- Interfaces with lighting control systems
- Rated for 55°C (131°F) ambient temperature; down to -20°C (-4°F) ambient temperature
- UL approved for indoor open rated highway use

Available Wattages:

Venture's *Uni-Form* electronic pulse start system with *Opti-E* HF electronic ballasts are available, currently in these wattages:

320
350
400
450



Venture's *Opti-E* HF electronic ballast

Other Energy Saving Options

Venture has the widest selection and variety of energy saving pulse start metal halide lighting systems. Achieve equal or more light while using less energy compared to older probe start metal halide wattages. With many options available, Venture Lighting has the perfect energy saving solution for all your lighting needs. Call for more information.

Rebates

Utility companies may offer rebates when you upgrade to more efficient lighting. Payback timeframe on these systems could be significantly reduced.

Visit Venture's website or call Venture today for more details about rebates



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