

# Symphon-E™

Electronic HID  
Ballast Technology

**Conditions and orchestrates electrical power for optimal metal halide lamp performance**

**Same light levels, 24% less energy compared to magnetic CWA ballasts!**

- ✓ Reduced Power Consumption
- ✓ Extended Lamp Life
- ✓ Improved Lamp Performance Over Life
- ✓ Suitable for High Temperature Environments
- ✓ Operates in the VLF-LF (FCC)
- ✓ High Power Factor (>0.96)
- ✓ Low Harmonic Distortion (<15%)
- ✓ Microcontroller-based Design
- ✓ Programmed Starting Sequence
- ✓ Time-limited Ignition Pulse
- ✓ Die-cast Aluminum Housing
- ✓ No Audible Noise
- ✓ Smaller, Lightweight

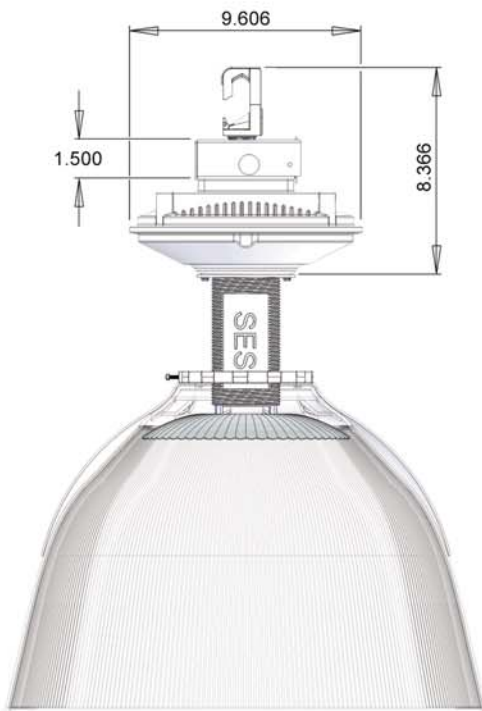
**Eliminates -**

- Flicker
- Stroboscopic Effect

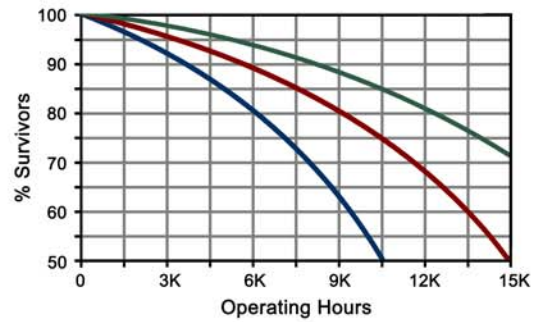


Energy Effective Lighting  
**Stingray** 

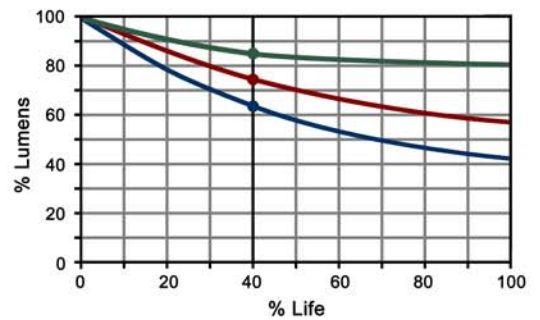
# Dimensional and Performance Data



Lamp Mortality



Lumen Depreciation



Notes: 1) Data based on burning duty cycle of 10 hours per start. Other duty cycles may require application of prorating/derating factor as appropriate.  
2) Opening for 3/4" electrical pipe feed when hook attachment is not used.

■ 250W Pulse Start (Symphon-E™ Ballast)  
■ 250W Pulse Start (Magnetic Ballast)  
■ 250W Probe Start (Magnetic Ballast)

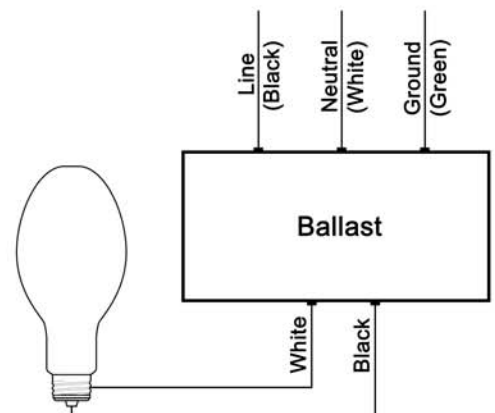
# Electrical Characteristics

Input	
Voltage	208-277 Vac
Frequency	50/60 Hz
Output	
Power	250W +/-1.5%*
Crest Factor	< 1.5
Frequency	> 190 KHz
Ignition Pulse	3.0 - 4.0 KV
Operating	
Power Factor	> 0.96%
Ballast Efficiency	> 95%
THD	< 15%

\* lamps specifying M138 or M153 ballast

**Protection**  
 Prevents excessive pulsing of failed lamps  
 Disconnects power when over-temperature conditions occur

**Ratings**  
 UL and CSA approved / "A" sound rating / Suitable for recessed use  
 Housing rated for Outdoor, Type-1 use / No PCB components  
 Built under ISO 9002 quality standards / Operating temperature -20 to 50°C



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