Glossary of Terms

Auxiliary Light: Back-up light source to the HID light; typically a quartz halogen type

Ballast: A device that, by means of resistance, inductance, capacitance or electronic elements, singly or in combination, controls the current, voltage and waveform to the required values for proper lamp starting and operation for a HID ballast operating at a given supply voltage

Ballast Characteristic Curve: The curve of lamp wattage vs. lamp voltage over a range of normal lamp voltages, when a HID ballast operates at a given supply voltage

Ballast Factor: Typically associated with fluorescent systems; metal halide ballasts are designed to operate lamps at rated watts, whereas some fluorescent systems are designed to operate at a fraction of rated watts

Constant Wattage Autotransformer (CWA) Control Gear: An autotransformer lead ballast circuit incorporating a capacitor in series with the lamp; compared to other ballasts, the CWA regulates over a wider input voltage range, holding lamp wattage to a narrow range by controlling lamp current

Current Crest Factor: The ratio of the peak to the rms value of lamp current; metal halide values range from 1.5 to 1.8

Hot Restart or Restrike Time: The amount of time from return of power after an interruption to the point of lamp ignition

Ignitor: An electronic device which provides, by itself or in combination with other circuit components, the appropriate electrical conditions to start a discharge lamp

Ignitor CWA Control Gear: CWA control gear using an ignitor to start the lamp

Initial Lumens: The light output of a lamp, based on photometry results, at rated wattage after 100 hours of operation

Input Voltage at Lamp Dropout (Extinction Voltage): The rms value of supply voltage at which a reference lamp extinguishes when the supply voltage is uniformly reduced from rated value at 2% to 3% of rated voltage per second

Input Watts: The power measured on the input terminals of a ballast which is operating a reference lamp

Lag Ballast: A ballast exhibiting primarily inductive electrical characteristics, including a lagging lamp current with respect to line voltage and lagging or corrected line power factor.

Lamp Voltage: The voltage at which lamps operate when they are fully warmed up

Lamp Wattage: The power consumed by a lamp after warm-up

Normal (Low) Power Factor Ballast: A ballast of the multiple-supply type that does not have a means for correcting the input power factor

Occupancy Sensor: Control device that dims or turns lights off after the space becomes unoccupied; may be ultrasonic or infrared-actuated

Open Circuit Current (Line): The RMS current measured through the input terminals of a ballast with lamp removed or inoperative

Open Circuit Voltage, Ballast (OCV): The voltage across the output terminals of a ballast when no load is connected (RMS, unless otherwise stated)

Open Rated Lamp (E27): Designed for open luminaires; has a narrower neck than standard E27 base lamps. Lamp arc tube is surrounded by a protective quartz shroud.

Operating Voltage: The voltage at which lamps operate when they are fully warmed up

Peak Lead Ballast: A ballast that produces a highly peaked open circuit voltage wave shape and has a capacitor in series with the lamp

Power Factor (Ballast): The quotient of the ballast input power divided by the product of the rms ballast supply voltage and ballast supply current

Rated Supply Voltage: The voltage for which a ballast or transformer is designed and for which operation and performance characteristics are referred

Reactor Ballast (Lag Ballast): An inductive component connected in series with an HID lamp to limit the current; uses a coil of wire wound around an iron core connected in series with the lamp

Regulation: The percent change in lamp watts as the line voltage is changed over the designated voltage range of the ballast

Restrike: To re-ignite the arc of a HID lamp

Restrike Control (Hot): A control device that powers an auxiliary lamp in an HID luminaire after a momentary power interruption

Restrike Control (Hot/Cold Start): A control device that powers an auxiliary lamp in an HID luminaire after a momentary power interruption and when the HID lamp is first turned on

Short-Circuit Current (Ballast): The current at the output terminals of a ballast when the output is shorted (rms, unless otherwise stated)

Spectral Distribution: The intensity of spectral energy in wavelengths emitted by a light source

Starter: An electronic device which provides, by i tself or in combination with other circuit components, the appropriate electrical conditions to start a discharge lamp

Starting Current (Line): The RMS current measured through the input terminals of the ballast five to 15 seconds after the lamp has started

Starting Pulse: A high-voltage, low-energy pulse superimposed on the open circuit voltage of some HID ballasts to aid in starting a lamp

Sustaining Voltage: The instantaneous voltage available to the lamp from the ballast at the time the lamp current passes through zero

System Watts: The power measured on the input terminals of a ballast which is operating a reference lamp

Following is a general summary of the terms and conditions of this warranty agreement. You may read the complete warranty statement on the Venture Lighting Europe web page.
(Visit www.venturelighting.com *and click on Europe.)*

Venture will replace **lamps:**

- found to be defective in materials, workmanship or proper operating parameters, upon delivery and/or initial installation
- that in a delivery quantity exceed the failure rate projected by typical life expectancy

No implied statutory warranty of merchantability or fitness for a particular purpose shall apply beyond the aforementioned warranty and, except as provided in this warranty, Venture shall not be under any liability as a result of defective goods delivered or for any injury, damage or loss resulting from such defects or from any work done in connection with these defects.

The following conditions apply to the above warranties:

- Operation is correct and in accordance with all Venture's guidelines and instructions.
- If defects are found at delivery, Venture is to be notified in writing of such defects within two working days after delivery.
- If other defects occur, Venture must receive written notice within seven days.
- If the Purchaser is to undertake any repair or remedial work under the warranty, the cost is agreed upon in writing between the Purchaser and Venture before work begins.

Return of Goods

The Purchaser may not return any goods without Venture's written consent. We reserve the sole, unrestricted right to refuse to accept returned goods. If Venture agrees to the return, then the customer will pay a handling charge of 10% of the invoiced value of the goods or, at our sole discretion, have this charge deducted from any credit allowed if Venture determines that the return does not comply with the above warranties or the Purchaser has not provided Venture proper written notice of a claim for loss, damage, short delivery or other breach of contract, misrepresentation or negligence no later than the close of business on the second working day after delivery.

A detailed schedule of our terms and conditions of trading is available upon request.

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