



ENDURALUME® V

THE ENDURALUME V LUMINAIRE IS AN EFFICIENT, LOW BRIGHTNESS UNIT FOR LIGHTING BOTH INDUSTRIAL AND COMMERCIAL AREAS. WHETHER IT BE SCHOOLS, FOOD PROCESSING AREAS OR WAREHOUSES, THIS IS A GREAT LUMINAIRE IN TERMS OF ENERGY EFFICIENCY AND SAFETY.

In today's society, energy efficiency is a driving concern. Energy use of a luminaire over it's lifetime will result in the greatest environmental impact. The Enduralume V luminaire meets those needs. It is available in MH, pulse start or HPS lamps and also with regular or low loss ballasts, in wattages ranging from 175-400W. In addition, for greater energy efficiency, the Enduralume V is now available with our electronic HID ballast in wattages ranging from 320-400W MH.



FEATURES AND BENEFITS

- ☐ Engineered for low maintenance
- ☐ Choice of mounting options offers versatility in design for any application
- ☐ Heavy duty construction and mechanical features provides longevity
- ☐ Efficient operation for energy savings
- ☐ Reflector top combined with the prismatic bottom allows minimal uplight while maintaining good, vertical footcandles

TYPICAL APPLICATIONS

- ☐ Electric Utilities
- ☐ Post Offices
- ☐ Distribution Warehouses
- ☐ Textile Mills
- ☐ Steel Mills
- ☐ Process Industries



APPLICATIONS

Process Industries

There are applications where the conditions require an enclosed luminaire producing efficient, wide spread lighting distribution. The Enduralume V luminaire combines a white painted highly reflective reflector with a spun on borosilicate glass or acrylic refractor. The reflector/refractor combination results in a low brightness appearance providing an efficient blend of horizontal and vertical illumination.

Warehouse Lighting

The Enduralume luminaire's unique design of combining an aluminum reflector with a drop prismatic glass refractor results in high vertical footcandles. Vertical footcandles are essential in stack lighting where it is necessary to read labels on boxes. Also, by having the luminaire enclosed, it meets UL requirements of containing a MH lamp in case of non-passive lamp failure. This is often important in warehouse areas where there is the potential for damage if lamps are not contained properly.

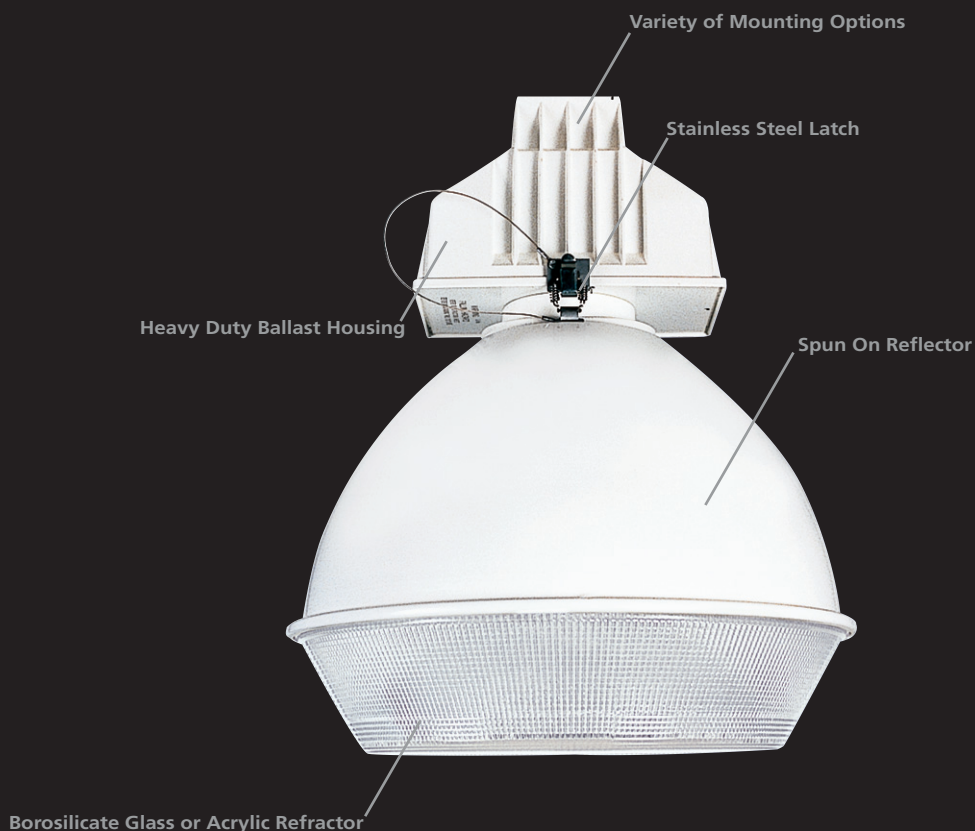
Post Offices

The Enduralume V luminaire, with its enclosed optics, is suited for moderately dirty environments as well as clean areas. The luminaire will provide long life and easy maintenance as required by these applications. Its appearance and ruggedness permit it to be equally at home in commercial as well as industrial applications.

Food Processing Areas

Similar to warehouse lighting, an enclosed luminaire is essential for safety in food handling areas. The acrylic refractor is a good choice for this application and also provides uniform light and is impact resistant.

Besides the application benefits of the Enduralume V luminaire, it is also a structurally sound unit. A relamp cable secures the reflector to the ballast housing when relamping. Gaskets are located at the reflector/ballast and the reflector/refractor connections to minimize dirt entering the optical assembly.



Heavy Duty Ballast Housing is pretreated and coated with electrostatically applied, thermally set white polyester powder paint.



Stainless Steel Latch features swing-over locking springs to prevent accidental dislodging. A stainless steel cable supports the optics. No tools are required to unlatch the optics from the housing.



Variety of Mounting Options with quick install slide on pendant mounting plate: Optional "quick disconnect" support for application flexibility and "disconnect under load" capability.

Spun On Refractor with Dropped Prismatic Borosilicate Glass or Acrylic Refractor. The refractor is 121mm (4.75") deep with precisely formed prisms producing a symmetrical light distribution.

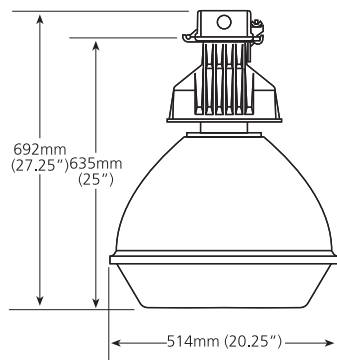


ORDERING INFORMATION

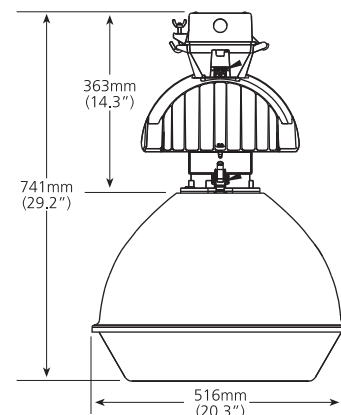
DIMENSIONAL DETAILS



EN — Standard Magnetic Ballast
Maximum Weight: 17.0 kg (38 lbs.)



EN — The Elite Series Electronic Ballast
Maximum Weight: 20.4 kg (45 lbs.)



SPECIFICATIONS

General

Complete luminaire shall be Enduralume V catalog number _____. The luminaire shall consist of two sub-assemblies: ballast assembly containing the electrical components and an optical reflector/refractor.

The complete luminaire shall be listed by Underwriters Laboratories, Inc. as suitable for use in damp location ambients of up to 55°C as standard, (40°C for 400W metal halide with acrylic refractor). Optional wet location luminaire shall be listed for 40°C.

The factory installed stainless steel reflector attachment latches shall have swingover locking springs, so as to prevent accidental dislodging. A stainless steel cable shall support the optics during relamping. No tools shall be required to unlatch the optics from the housing. The support casting shall contain a fiberglass filter and an EPT gasket which is compressed when the optical assembly is latched in place.

Optical Assembly

The optical assembly shall encompass a 508mm (20") diameter aluminum reflector with a 90% reflectance, white baked polyester powder paint finish combined with a spun on dropped prismatic borosilicate glass or acrylic refractor. The refractor shall be 121mm (4.75") deep with precisely formed prisms producing a symmetrical light distribution.

Mounting Assembly

See page 32-33 for the performance specifications on the mounting options that are available

Electronic Ballast

The HID electronic ballast shall be provided with integral color coded leads. This electronic ballast shall be multi-voltage capable and shall operate from a nominal voltage range of 208 – 277 volts AC. The electronic ballast shall have a system efficiency of greater than 93% under full lamp operation. It shall be FCC compliant for EMI/RFI as per parts 18.305 and 18.307. Total harmonic current distortion shall be less than 15%. Starting input current shall be less than stabilized lamp operating current. The ballast system shall be

capable of maintaining stabilized lamp operation through one full cycle of power interruption. Electrical system shall withstand transient peaks of seven strikes of 100kHz ring waves at 2.5kV level for both common and differential mode per IEEE C62.41.

The ballast shall be capable of powering one 400, 350 or 320 watt pulse start metal halide lamp. Lamp wattage shall not vary more than $\pm 3.0\%$ for a $\pm 10\%$ change in input line voltage. A crest factor of 1.5 shall not be exceeded. Lamps operating on the ballast shall be warranted by the lamp manufacturer to deliver improved mean lumens as compared to same lamp operation on an electromagnetic ballast. Where applicable, a means of continuous dimming shall be a part of the ballast system.

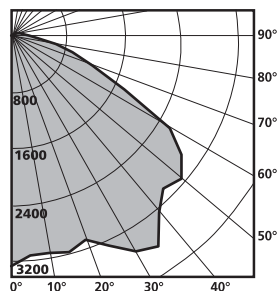
Dimming control is to be of the common 0–10 volt DC. 0–10VDC dimming control voltage shall be derived from the ballast, not an externally imposed source. Dimming shall range from 100% down to no less than 50% of input power. Automatic over temperature protection shall be provided. The ballast shall carry a warranty of three years when installed in applications meeting the manufacturer's conditions and the requirements of the applicable UL safety listings.

Dimming option shall include a "Hold High" feature that maintains full power to lamps when starting up after loss of power. After a 20 minute delay, the lamp will be restored to its previous dimmed setting. This is to comply with lamp manufacturer recommendations regarding starting lamps while dimmed and the effect on lamp life.

Certain airborne contaminants can diminish the integrity of acrylic. Please refer to the Acrylic Environmental Compatibility Chart (HL-2445) for suitable uses.

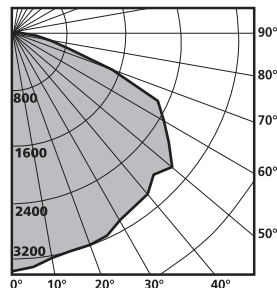
DISTRIBUTIONS

Acrylic Lens



EN250MH00X8
Enduralume V
Lamp: 250W Clear MH
Lumens: 20500
Watts: 250
Spacing Criteria: 1.6
Luminaire Efficiency: 82.4%

Prismatic Glass Refractor



EN250MH00X7
Enduralume V
Lamp: 250W Clear MH
Lumens: 20500
Watts: 250
Spacing Criteria: 1.4
Luminaire Efficiency: 76.7%

PREFERRED SELECTIONS:

Most Frequently Ordered Catalog Numbers

EN	32PME	V	Q	8	F1	PF-291
1	2	3	4	5	6	7
LUMINAIRE	WATTAGE	VOLTAGE	MOUNTING	OPTICS	OPTIONS	ACCESSORIES
EN	32PME	V	Q	8	F1	PF-291

CATALOG NUMBERS FOR ENTIRE PRODUCT OFFERING

(Pricing and lead times may be affected)



STEP 1: LUMINAIRE	
EN	Enduralume V
STEP 2: SOURCE AND WATTAGE	
HIGH PRESSURE SODIUM	
250HP	250W HPS
400HP	400W HPS
Energy Saving	
25LHP	250W HPS
40LHP	400W HPS
METAL HALIDE	
175MH ¹	175W MH
175MP ¹	175W MH, protected
250MH ¹	250W MH
250MP ¹	250W MH, protected
400MH ¹	400W MH
400MP ¹	400W MH, protected
Energy Saving	
25LMH ¹	250W MH
25LMP ¹	250W MH, protected
40LMH ¹	400W MH
40LMP ¹	400W MH, protected
¹ Not available for shipment in US after Dec. 31, 2008, due to EISA legislation	
² (E) Meets US Federal EISA legislation	

STEP 2: SOURCE (CONTINUED)	
ELECTRONIC METAL HALIDE	
32PME ¹	320W PMH
32PPE ¹	320W PMH, protected
35PME ¹	350W PMH
35PPE ¹	350W PMH, protected
40PME ¹	400W PMH
40PPE ¹	400W PMH, protected
PULSE START METAL HALIDE	
175PM ²	175W PMH
250PM ²	250W PMH
250PP ²	250W PMH, protected
320PM ²	320W PMH
320PP ²	320W PMH, protected
350PM ²	350W PMH
350PP ²	350W PMH, protected
400PM ²	400W PMH
400PP ²	400W PMH, protected
Energy Saving	
35LPM ²	350W PMH
35LPP ²	350W PMH, protected
40LPM ²	400W PMH
40LPP ²	400W PMH, protected

STEP 3: VOLTAGE	
08 ¹	208V
12	120V
20	208V
24	240V
27	277V
34	347V
40 ¹	240V
48	480V
V	208, 240, 277 volt Auto sensing, electronic
Multi-voltage	
MA	Prewired for 120V
MB	Prewired for 208V
MC	Prewired for 240V
MD	Prewired for 277V
MT	Multi-voltage
VT ²	Vari-tap
¹ Must be handled through TSG	
² Available with 250HP, 250MH, 250PM, 25LPM, 320PM, 35LPM, 350PM, 400HP, 400MH only	

STEP 4: MOUNTING	
N	Non quick disconnect power hanger
P	Pendant mount, .75" NPT conduit
Q	Quick disconnect power hanger
STEP 5: OPTICS	
7 ¹	Acrylic lens
8	Prismatic glass refractor
¹ Open rated protected lamp only	
STEP 6: OPTIONS	
Factory Installed.	
See page 39 for a complete list of options and product availability	
STEP 7: ACCESSORIES	
Ships Separately.	
See page 39 for a complete list of accessories and product availability	