

# OGE OMNIGLOW™ 400 LUMINAIRE

## NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Optical Sliding Disconnect Series



### APPLICATIONS

- Assembly lines, inspection areas, production bays, storage areas, warehouses and commercial areas.

### SPECIFICATION FEATURES:

- UL 1598 Listed
- Suitable for Damp Location
- Choice of open/ventilated or enclosed/filtered opticals
- Unique optical sliding disconnect
- 55° C ambient, standard
- Clear tempered door glass lens on enclosed units
- Borosilicate prismatic glass reflector with bright zinc-plated corrosion-resistant steel frame
- Nuvation™ electronic ballast:
  - Dimming Option – dims lamp to 50% of rated lamp wattage.
  - Two piece heavy-duty die cast aluminum housing
  - Integral optical mounting design for GELS “Sliding Disconnect”
- Attractive round ballast housing design with white polyester paint finish
- Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
- Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

INDOOR LIGHTING

### ORDERING NUMBER LOGIC

| OGE  | W                          | 40   | N   | G  | E                             | V4  | ES  | 11  | X  |
|--|----------------------------|--|---|--|-------------------------------|---|---|---|--|
| PRODUCT IDENT  | COLOR                      | WATTAGE                                      | LIGHT SOURCE  | VOLTAGE  | BALLAST TYPE                  | OPTICAL CODE  | PHOTOMETRY CODE                                   | MOUNTING CODE   | OPTIONS  |
| XXX  | X                          | XX   | X   | X  | X                             | XX  | XX  | XX  | X  |
| OGE = Omniglow 400 Luminaire Disconnect optical with NnVation electronic ballast | W = White Polyester Powder | 25 = 250<br>32 = 320<br>35 = 350<br>40 = 400 | N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps<br>Note: Lamp is vertical base up. Lamp is not included. | G = 208-277 Discrete Voltages must be specified when ordering cord & plug assemblies:<br>2 = 208<br>3 = 240<br>4 = 277 | E = Electronic<br>C = Dimming | V4 = Open and ventilated 14-in.<br>V8 = Open and ventilated 18-in.<br>E4 = Enclosed and Filtered 14-in.<br>E8 = Enclosed and Filtered 18-in.<br>Note: Do not use open opticals with lamps specified for use in enclosed opticals only | XX = Select Code from Photometric Selection Table | 11 = Pendant Slide on Box<br>15 = Prewire with Loop, Cord and Plug part “Power Hook”. (Order Receptacle/ Hook Box separately)<br><br>Discrete Voltages must be specified when ordering cord & plug assemblies below:<br>31 = Prewired with Hook, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG<br>33 = Prewired with Loop, 3 ft. (0.9 meters) #16/3 Cord and NEMA PLUG (Order Locking Receptacle Separately, if required) | Q = Automatic switched quartz<br>S = Exclusionary mogul base socket for MH open fixtures |

### PHOTOMETRIC SELECTION TABLE

#### V4 OPTICAL – Open 14 in. Reflector

| Wattage     | Light Source | Spacing Criteria | Socket Position | Photometric Curve | Optical Code | Photometry Code |
|-------------|--------------|------------------|-----------------|-------------------|--------------|-----------------|
| 320,350,400 | MH,P         | 1.2              | 7               | 177978            | V4           | ES              |
| 320,350,400 | MH,P         | 1.7              | 3               | 177974            | V4           | EO              |
| 320,350,400 | MH(Coated),P | 1.6              | 3               | 178003            | V4           | EO              |

#### V8 OPTICAL – Open 18 in. Reflector

| Wattage     | Light Source | Spacing Criteria | Socket Position | Photometric Curve | Optical Code | Photometry Code |
|-------------|--------------|------------------|-----------------|-------------------|--------------|-----------------|
| 320,350,400 | MH,P         | 1.0              | J               | 178757            | V8           | EJ              |
| 320,350,400 | MH,P         | 1.5              | G               | 178755            | V8           | EG              |
| 320,350,400 | MH,P         | 1.7              | F               | 178754            | V8           | EF              |
| 320,350,400 | MH(Coated),P | 1.7              | C               | 178772            | V8           | EC              |

#### E4 OPTICAL – Enclosed 14 in. Reflector

| Wattage     | Light Source | Spacing Criteria | Socket Position | Photometric Curve | Optical Code | Photometry Code |
|-------------|--------------|------------------|-----------------|-------------------|--------------|-----------------|
| 250,320*    | MH,P         | 1.4              | H               | 177924            | E4           | EH              |
| 250,320*    | MH(Coated),P | 1.8              | D               | 177931            | E4           | ED              |
| 320,350,400 | MH,P         | 1.2              | 7               | 177905            | E4           | ES              |
| 320,350,400 | MH,P         | 1.4              | 5               | 177903            | E4           | EQ              |
| 320,350,400 | MH,P         | 1.6              | 4               | 177902            | E4           | EP              |

#### E8 OPTICAL – Enclosed 18 in. Reflector

| Wattage     | Light Source | Spacing Criteria | Socket Position | Photometric Curve | Optical Code | Photometry Code |
|-------------|--------------|------------------|-----------------|-------------------|--------------|-----------------|
| 320,350,400 | MH,P         | 1.6              | F               | 178764            | E8           | EF              |
| 320,350,400 | MH(Coated),P | 1.0              | H               | 178779            | E8           | EH              |
| 320,350,400 | MH(Coated),P | 1.2              | F               | 178780            | E8           | EF              |
| 320,350,400 | MH(Coated),P | 1.5              | D               | 178777            | E8           | ED              |

\*320 watt, ED28 pulse start MH

#### MODULAR PREWIRE

- 41 = ACS with 3 ft. (0.9 meter) cord & Hook
- 69 = ACS with 6 ft. (1.8 meter) cord & Hook
- 43 = ACS with 3 ft. (0.9 meter) cord & Loop
- 70 = ACS with 6 ft. (1.8 meter) cord & Loop

#### PLUG-N-GO

- 51 = Plug-N-Go with 3 ft. (0.9 meter) Cord & Hook
  - 71 = Plug-N-Go with 6 ft. (1.8meter) Cord & Hook
  - 53 = Plug-N-Go with 3 ft. (0.9 meter) Cord & Loop
  - 72 = Plug-N-Go with 6 ft. (1.8 meter) Cord & Loop
- Note: ACS = Flex 3+  
Plug-N-Go = FSC Series

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS “S” Option). Customer should consult or review local electrical codes for compliance.

All Electronic devices are susceptible to transient voltage spikes. For facilities where the lighting circuits are not protected from transient voltage spikes a (TVSS) Transient Voltage Surge Suppression system is recommended. To protect the NuVation ballast a TVS protection system must be able to suppress a 3000V ring wave as described in ANSI/IEEE C62.41 B1.

# UGE OMNIGLOW™ 400 LUMINAIRE

## NUVATION™ Electronic Ballast

High Bay, Open or Enclosed – Optical Sliding Disconnect Series

### DIMENSIONS

When optical assembly contains a quartz socket an additional 1.125 inches (29mm) must be added to the overall height due to double stack disconnect.

### NOTES

See explanation on “Optical Flexibility” Page I-4. See References.

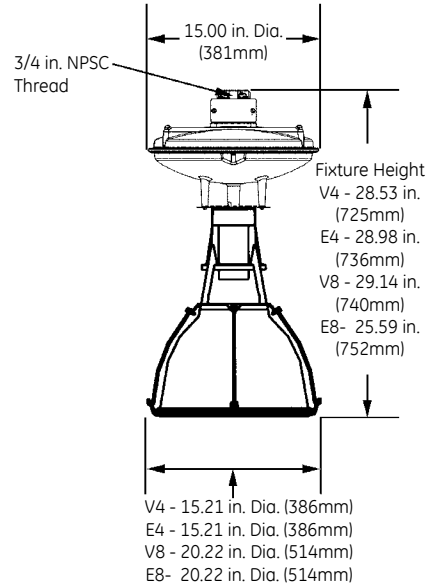
### REFERENCES

See Page I-104 for start of Accessories.

See Page I-117 for Component Ordering Logic.

See Page I-129 for Explanation of Options and Other Terms Used.

### FIXTURE DIMENSIONS



### DATA

| Approximate Net Weight<br>Ballast and Optical | lbs   | kgs   |
|---|-------|-------|
| Fixture w/14-in. Glass Optical                | 24-39 | 11-18 |
| Fixture w/18-in. Glass Optical                | 30-58 | 14-26 |

### BALLAST DATA

- \* 13% Improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- \* 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- \* 50% lower ballast losses than typical CWA magnetic HID ballast.
- \* Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- \* Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- \* Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- \* Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- \* Ballast has an end-of-lamp-life detection and shutdown circuit.
- \* The ballast shall have a minimum starting temperature of -20 degrees F and maximum operating ambient of 55 degrees C..
- \* Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- \* Five-Year Fixture Failure Warranty.
- \* Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for nonconsumer equipment.

#### Dimming Ballast

- \* The ballast is supplied with a violet (+) and gray (-) wire for dimming control connections.
- \* Ballast dims to fifty percent of rated lamp wattage.
- \* Dimming voltage is 0-10V where 10V is high wattage and 0 is fifty percent of rated lamp wattage.
- \* Ballast operates the lamp at high wattage for 15 minutes at start up.
- \* Ballast operates lamp at high wattage for fifteen minutes after operating in dim mode for twenty-four hours.

### INPUT WATTAGE TABLE

| Lamp Wattage | Line Voltage | Input Watts |
|--------------|--------------|-------------|
| 400          | 277          | 428         |
| 400          | 240          | 432         |
| 400          | 208          | 435         |
| 350          | 277          | 377         |
| 350          | 240          | 380         |
| 350          | 208          | 383         |
| 320          | 277          | 346         |
| 320          | 240          | 347         |
| 320          | 208          | 349         |
| 250          | 277          | 276         |
| 250          | 240          | 272         |
| 250          | 208          | 271         |