



## GUIDE FORM SPECIFICATIONS

### M-400A POWR/DOOR® LUMINAIRE WITH CUTOFF OPTICS

#### GENERAL DESCRIPTION

The complete luminaire designated \_\_\_\_\_ (identify) shall be a GE M-400A POWR/DOOR® WITH CUTOFF OPTICS roadway luminaire, ordering number \_\_\_\_\_ (specify MDCL, plus ordering number logic from catalog) or approved equal, to operate one \_\_\_\_\_ (specify [150 (55V), 200, 250, 310 or 400] watt high pressure sodium [HPS] or 50, 100, 150, 175, 250 or 400 watt metal halide or 400 watt mercury) lamp from a nominal \_\_\_\_\_ (specify 120, 208, 220, 230, 240, 277, 347 or 480) volt, 60 Hz or (220, 230 or 240) volt, 50 Hz power source and shall be capable of starting and operating the specified lamp within the limits specified by the lamp manufacturer. The luminaire shall contain a completely prewired integral ballast and an optical assembly that shall provide an IES Distribution Type \_\_\_\_\_ (specify according to photometric selection table). Labeling shall be in accordance with ANSI standards. Some units may be UL/cUL Listed. Contact factory. Standard construction is IP55.

#### MECHANICAL CONSTRUCTION

The luminaire shall include a precision die-cast aluminum top housing, optical door with lens and hinged and removable powr/module door. Top housing and doors shall have an electrocoat gray paint finish. The internal slipfitter shall contain two bolts which do not pass through the housing but tighten from below with powr/module door in dropped position. The one-piece pipe clamp shall be capable of adapting to 1¼- through 2-inch (42 through 60 mm) pipe without rearrangement of clamp or bolts, and shall be adjustable  $\pm 4^\circ$  from horizontal. There shall be an optional prewired no-tool photoelectric control receptacle.

There shall be a metal bird guard, shipped installed (not needed for 2-in. pipe mounting) and an external quick-release paddle type stainless steel bail latch on the optical door requiring no tools and operable with lineman's gloves.

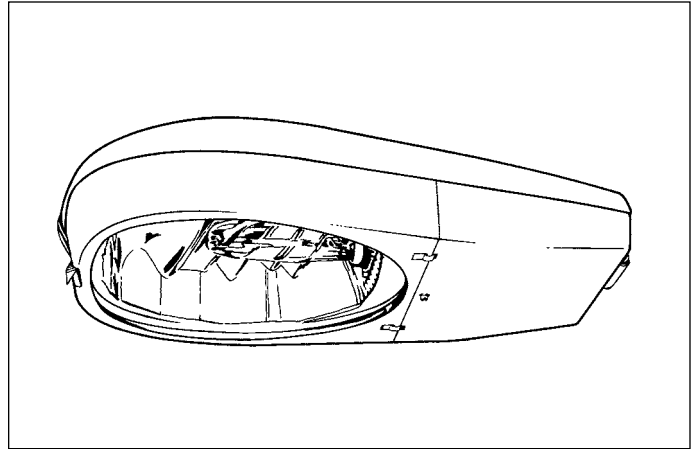
#### BALLAST OPERATION

There shall be a Powr/Module ballast assembly with all ballast components mounted on the die-cast powr/module door and easily removable and replaceable through the use of quick disconnect plugs. The ballast shall be prewired to the lamp socket and dead-back terminal board, requiring connection of power supply leads to the terminal board only. A plug-in ignitor shall be available and shall be removable without the use of tools.

The luminaire shall contain a standard \_\_\_\_\_ (specify) type ballast\* in full compliance with lamp-ballast specifications available to the fixture manufacturer from the lamp manufacturers at the time of fixture manufacture.

The ballast shall reliably start and operate the lamp in ambient temperatures down to  $-20^\circ\text{F}$  for mercury and metal halide or  $-40^\circ\text{F}$  for HPS.

The luminaire and ballast shall be from the same manufacturer.



#### OPTICAL ASSEMBLY

The cutoff optical assembly shall include a formed aluminum standardized reflector with a chemically-bonded lightweight non-breakable ALGLAS® finish on both the inside and outside surfaces providing corrosion resistance, durability and ease of cleaning, and a \_\_\_\_\_ specify acrylic clear globe, shallow glass globe, polycarbonate clear globe, or heat/impact-resistant tempered flat glass lens. The cutoff optical assembly shall allow no light above  $90^\circ$  with use of flat glass lens (true  $90^\circ$  full cutoff characteristics).

The cutoff optical assembly shall have a \_\_\_\_\_ specify non-wicking felt gasket which acts as filter by excluding particulate contamination when the luminaire is closed, or \_\_\_\_\_ specify an elastomer gasket, around the edge of the reflector with an activated charcoal filter to permit passage of air and therefore allow for breathing of the luminaire during normal off-on heating and cooling cycles, filtering out gaseous contaminants such as hydrocarbons.

The optical assembly shall contain an adjustable E39 mogul base socket with superior lamp gripping. The socket shall have added insulation, giving it the ability to handle the higher pulse ratings of newer HID systems.

\* REFER TO PRODUCT PAGE FOR BALLAST SELECTIONS. FOR MORE DEFINITIVE INFORMATION, REFER TO BALLAST SPECIFICATIONS IN TECHNICAL DATA SECTION.



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