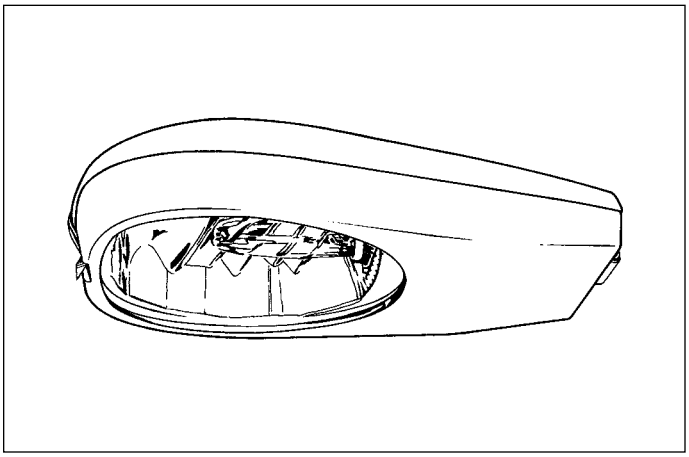
GE
Lighting Solutions

GUIDE FORM SPECIFICATIONS
M-400 LUMINAIRE WITH CUTOFF OPTICS

GENERAL DESCRIPTION

The complete luminaire designated _____ (identify) shall be a GE M-400 WITH CUTOFF OPTICS roadway luminaire, ordering number _____ (specify MSCL, plus ordering number logic from catalog) or approved equal, to operate one _____ (specify 150 (55V) 200, 250 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. Standard construction is IP55.



MECHANICAL CONSTRUCTION

The luminaire shall include a precision die-cast aluminum upper and lower housing with an electrocoat gray paint finish. Lower housing shall be hinged and separable and shall hold refractor in place. The internal slipfitter shall contain two bolts which do not pass through the housing but tighten from below with lower housing 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 ±4° 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 requiring no tools and operable with lineman's gloves.

BALLAST OPERATION

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°F for mercury and metal halide or -40°F for HPS.

The luminaire and ballast shall be from the same manufacturer.

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 ballast components including ballast, dead-back terminal board and ignitor (for HPS luminaires) shall be mounted on an easily removable power tray. The tray shall be held in place by two keyhole slot screws.

OPTICAL ASSEMBLY

The cutoff optical assembly shall provide cutoff characteristics and contain a precision-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 heat/impact-resistant gasketed flat glass lens or polycarbonate clear globe.

The cutoff 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 optional elastomer gasket, around the edge of the reflector, between the reflector and the lens and 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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