

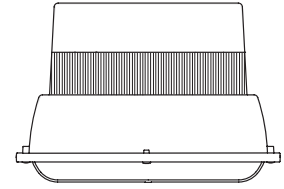
Notes:

Job:

Type:

GARAGE LIGHTING

GP1 INDUCTION LUMINAIRE



GENERAL DESCRIPTION: The Gardco GP1 is a luminaire designed specifically for parking garage lighting. The precision diecast aluminum canopy, the corrosion resistant acrylic housing, and the moisture, insect, and pollutant excluding silicone gasketing all assure long fixture life.

ORDERING

PREFIX	WATTAGE	VOLTAGE	OPTIONS
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			<input type="text"/>

Enter the order code into the appropriate box above. Note: Gardco reserves the right to refuse a configuration. Not all combinations and configurations are valid. Refer to notes below for exclusions and limitations. For questions or concerns, please consult the factory.

PREFIX

GP1

WATTAGE

85QL/830

85QL/840

*85QL/830 85 watt QL/3000°K**85QL/840 85 watt QL/4000°K**The GP1 is available in Industrial Grey only.*

VOLTAGE

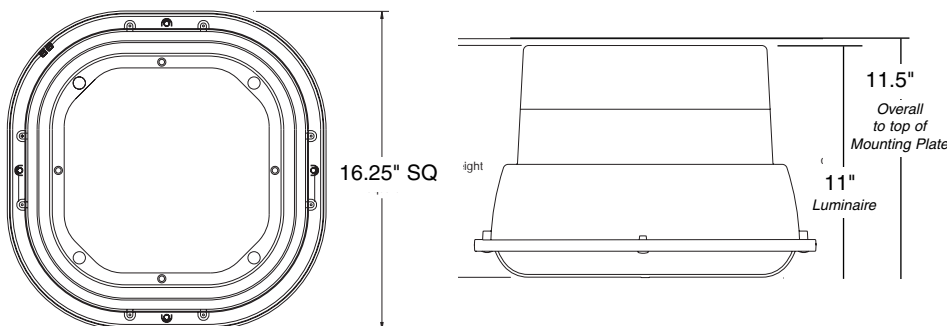
120

208-240¹277²¹ Accepts input voltages from 208V through 240V² 277V input requires a step down transformer be added to the luminaire to match the QL system input voltage.

OPTIONS

- POLY** Polycarbonate Downlight Lens
TP Spanner Head Tamper Resistant Screws
DR Supplementary Downlight Reflector
Provides additional area illumination and masks uplight
BX Bird Excluding Shroud for pendant mounted units
JB Balanced j-box with offset knock-out
for non-rigid sway pendant mount
TM Trunnion Mount

DIMENSIONS



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A Genlyte Company

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79115-72QL/0604

GARAGE LIGHTING

GP1 INDUCTION LUMINAIRE

SPECIFICATIONS

GENERAL: The Gardco GP1 is a garage luminaire. Each luminaire features a diecast electrical canopy, an acrylic housing with an uplight window, a metalized faceted downlight reflector system, a hydroformed uplight reflector, and an acrylic lens. Units are totally sealed and suitable for damp and wet locations.

QUICK MOUNT PLATE: A dieformed 14 ga. galvanized steel plate is supplied for mounting to a recessed, surface, or rigid pendant hung 4" j-box (standard j-box and rigid pendant by others). An integral hanger tab on the plate supports the luminaire during wiring.

UPPER ELECTRICAL CANOPY: The diecast aluminum canopy houses the ballast and wiring splices. After wiring, the canopy swings up and snaps securely to the Quick Mount Plate without tools.

HOUSING: The housing consists of a one piece acrylic housing with prismatic uplight window and opaque lower side section. The housing is fully gasketed to the upper canopy.

DOWNLIGHT REFLECTOR: Semi-specular metalized aluminum facets are precisely positioned to provide a highly efficient lighting distribution.

UPLIGHT REFLECTOR: The hydroformed and anodized aluminum reflector is designed to generate illumination on the ceiling and vertical surfaces.

DOWNLIGHT LENS: An injection molded UV resistant acrylic lens is retained with captive fasteners. The lens hinges down for relamping. Memory retentive silicone gasketing seals the lens to the housing.

THE QL INDUCTION LIGHTING SYSTEM: QL Induction lighting is based on a technology which is fundamentally different from that of incandescent lamps or today's conventional gas discharge lamps. Instead of the glowing filaments of incandescent lamps, or the electrodes used in conventional gas discharge lamps, light generation is by means of induction-the transmission of energy via a magnetic field-combined with a gas discharge.

Induced Current In Lamp Bulb (Vessel)

In the QL Induction lighting system, the energy source-equivalent to the primary coil of the transformer-is the lamp's induction coil, which is powered by the high-frequency electronics in the HF generator. The secondary coil is represented by the low-pressure gas and metal vapor inside the lamp bulb. The induced current causes the acceleration of charged particles in the metal vapor. These particles collide, resulting in excitation and ionization of the metal vapor atoms, and raising the energy level of the free electrons from these atoms to a higher, unstable state. As these excited electrons fall back to their stable, lower-energy state, they emit ultraviolet radiation. This falls on the fluorescent coating inside the lamp bulb, causing light to be emitted.

1. Induction Lighting System Specifications provided by Philips Lighting Company.

QL System Components

The QL lamp system consists of three main components, each of which can be replaced separately if service is required.

The vessel or discharge bulb is a closed glass bulb containing a low-pressure inert gas filling with a small amount of mercury vapor. The walls of the vessel are coated on the inside with a fluorescent powder of any of the modern three-line phosphor types, providing a choice of color temperatures. At present, the colors /830 (3000K) and /840 (4000K) are available. The discharge vessel is fixed to the power coupler by the plastic lamp cap with the click system. These two components normally never need to be disassembled, due to the ultra-long lifetime of the system.

The power coupler transfers energy from the HF generator to the discharge inside the glass bulb, using an antenna that comprises the primary induction coil and its ferrite core. Other parts of the power coupler are a plastic support for the antenna, a 40 cm coaxial connecting cable carrying current from the HF generator, and a heat conducting rod with mounting flange. The mounting flange allows the QL lamp system to be mechanically attached to the luminaire, and removes waste heat to a heat sink which forms part of the luminaire.

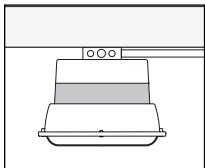
The HF generator produces the 2.65 MHz alternating current supply to the antenna.



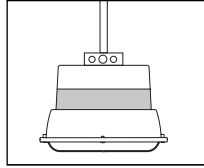
FINISH: The upper canopy is finished with polyester powdercoat. The opaque housing section is finished with acrylic lacquer. Architectural grey finish is standard.

LABELS: All fixtures bear UL or CSA/CUL (where applicable) Wet Location labels.

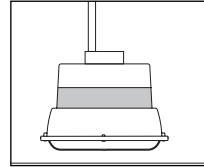
MOUNTING



Flush or surface mounting is easily accomplished with a galvanized steel quick mount plate (standard j-box by others).

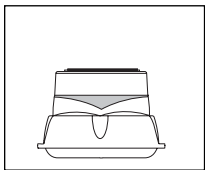


For rigid pendant mounting to conduit (by others), the Gardco Quick Mount plate is directly attached to a standard 4" j-box, as in surface ceiling mounted applications.

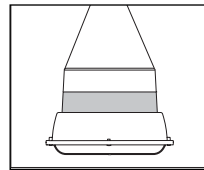


An off-set, self-leveling j-box balances the luminaire in those cases where the pendant mount is free swinging. (Swivel ceiling canopy and pendant by others.) For this option specify JB when ordering.

OPTIONS



The DR (Downlight Only Reflector) option provides an additional spun aluminum lower reflector which will significantly increase pavement illumination and mask any undesired uplight.



Practical options include a bird excluding shroud which prevents nesting and perching, reducing dirt and maintenance. A 12" minimum pendant length required.

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