

# MINIRAY



# COMPACT SIZE

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The Miniray from Gardco is surprisingly compact in size, combining a clean, simple dome shape with a remarkably thin profile. The Miniray appears to extend naturally from landscapes and exterior architectural surfaces.

The form tends to visually reduce the perceived size of the luminaire, drawing attention to the lighted landscape or architectural surface rather than to the lighting instrument. The remarkably slim profile of the Miniray extends less than 3" above ground or from a mounting surface making it ADA compliant and less of a target for vandalism.



Miniray  
12" Diameter

Mantaray  
16" Diameter

# FEATURES

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The Miniray features rugged diecast housings in either aluminum or brass, and a high strength tempered glass lens that will withstand tenacious vandals as well as unintended collisions with landscape maintenance equipment. The Miniray provides powerful lighting performance, achieved with state-of-the-art reflector systems and ceramic metal halide lamps or MR-16 halogen light sources.



## Meets ADA Mounting Requirements

The Miniray's naturally thin profile extends less than 3" in height above ground or from a mounted surface. With a mere 12" diameter, the Miniray is the perfect compact companion luminaire to the Gardco Mantaray for applications where smaller luminaire size is desired. The profile remains below the ADA 4" maximum even when the optional Louver Guard is utilized.

## Optional Louver Guard

The Miniray provides an optional raised louver guard for use in high abuse environments. The louver guard adds an additional styling element to the luminaire. It is recommended when mounting near pedestrians to protect against discomfort from direct contact with the lens.



# PERFORMANCE

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## Two High Performance MH Optical Systems, and Choice of MR16 Halogen Sources



The Miniray offers the 39 Watt T4.5 compact Ceramic Metal Halide light source, with a choice of Narrow Flood or Horizontal Flood optical systems. Additionally, 20 Watt to 71 Watt MR16 Halogen light sources provide remarkable versatility in light intensity and beam spreads.

The highly efficient 39 Watt T4.5 compact Ceramic Metal Halide provides all the advantages of fast warm-up, high color rendering index, high efficiency, and long lamp life. Combine the Gardco high performance Narrow Flood or Horizontal Flood optical systems, and the result is a powerful punch of light for washing or dramatic effect on landscaping or architectural surfaces.

MR-16 Halogen light sources offer wattages from 20 watt to 71 watt, and beam spreads including Narrow Spot, Narrow Flood, Flood, and Wide Flood, with beam angles ranging from 9° to 50°. With all of these choices available, a designer can be sure to provide the desired lighting impact, whether it be uniform surface washing, surface grazing, or dramatic highlighting.



# INSTALLATION

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Miniray features the special ground mounting system pioneered by Gardco with the Mantaray. Miniray optics are fully adjustable to 90°, and the housing rotates 360°. The versatility of the system assures that the Miniray can be properly mounted in any climate or soil. Ground mounting utilizes non-corrosive materials to insure a lasting site impact. The Miniray also mounts easily to wall or ceiling surfaces.

The ground mounting assembly provided by Gardco can be poured in concrete or, for greater stability, Sonotube (by others) may be cut to the desired length and installed between the supplied upper and lower mounting frames. Conduit (by others) is screwed into hubs on the upper mounting frame. The cutaway photo to the right shows the lower mounting frame snap-in conduit support rings.



# SPECIFICATIONS

**GENERAL:** Gardco Miniray outdoor luminaires utilize compact metal halide and MR16 lamps and are suitable for wall mounting, ceiling mounting or ground mounting. Housing and mounting base are diecast aluminum or brass. HID optical systems provide either a narrow flood or a horizontal flood distribution.

**HOUSINGS:** Housings are single-piece aluminum or brass diecastings in the form of a shallow dome. Optically clear, borosilicate glass lens is mechanically secured in housing and gasketed. Housing is secured to mounting base with four (4) stainless steel slotted fasteners and sealed with memory retentive gasket to exclude moisture, dust, pollutants, and insects from optical and electrical systems.

**MOUNTING:** Surface units (S) mount directly to building surface over recessed j-box or conduit feed. Ground mount (G) units include polycarbonate and PVC mounting kit designed to secure Sonotube™ (by others) in direct burial in soil or concrete.

**OPTICAL SYSTEMS:** Reflectors are composed of specular extruded or formed aluminum faceted components. Reflector elements are designed to provide either a horizontal flood or narrow flood distribution. Units may be rotated 360° and provide vertical aiming to 90°. Optical systems are designed to accept T-4.5 metal halide lamps with a G-8.5 bi-pin base and MR16 lamps.

**ELECTRICAL:** Metal Halide luminaires utilize magnetic ballasts that are high power factor and designed for reliable lamp starting to 20°F. G-8.5 bi-pin sockets are glazed porcelain with nickel plated contacts. MR16 luminaires utilize electronic transformers capable of supplying power to 20 watt to 71 watt MR16, 12 volt halogen lamps.

**FINISH:** Each luminaire receives a fade and abrasion resistant electrostatically applied, thermally cured, (TGIC) polyester powdercoat finish.

**LABELS:** All luminaires bear UL or CUL (where applicable) Wet Location labels.

Patent Pending

# ORDERING

PREFIX	WALL TYPE	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
<b>M12A</b>	<b>G</b>	<b>HFL</b>	<b>39MH</b>	<b>120</b>	<b>BRP</b>	<b>F</b>
<b>M12A</b> Aluminum Housing	<b>S</b> Surface Mount	<b>HFL</b> Horizontal Flood 39 MH only	<b>39MH</b> 39 watt Metal Halide G8.5 Base only. Normal Power Factor only. Supplied with luminaire.	<b>120</b> <b>277</b>	<b>BRP</b> Bronze Paint <b>BLP</b> Black Paint <b>WP</b> White Paint <b>NP</b> Natural ALuminum Paint <b>BGP</b> Beige Paint <b>VP</b> Verde Green Paint <b>OC</b> Optional Color Paint Specify RAL designation as shown in Color Selection Guide. ex: OC-RAL7024	<b>F</b> Fusing HID only <b>LG</b> Louver Guard <b>LFI</b> MR16 only. Lamps are already supplied with 39MH units
<b>M12B</b> Brass Housing	<b>G</b> Ground Mount	<b>NFL</b> Narrow Flood 39 MH only <b>X</b> Use if specifying MR16 lamps. MR16 types rely on lamp for beam spread.	<b>MR16</b> 71 watt maximum 50 watt maximum for ceiling mount		<b>SC</b> Special Color Paint (Specify. Must supply color chip) <b>UNP</b> Unpainted (M15B - Brass only)	

# DIMENSIONS

