

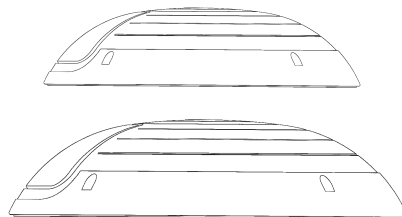
Job:
Type:
Notes:

Miniray and Mantaray

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M12 / M15 Series Luminaires

Miniray and Mantaray luminaires from Philips Hadco are shallow, surface mounted outdoor luminaires with remarkable versatility. The clean simple dome hides naturally in landscapes and on building surfaces. Ground mounted units effectively illuminate signage, building surfaces or trees. Wall mounted luminaires can graze walls, uplight canopies or downlight small areas. Canopy mounted luminaires provide excellent wall washing. Because diecast housings are available in either aluminum or brass, these luminaires resist corrosion in the harshest environments even when mounted at grade. Both the horizontal flood and narrow flood distributions provide exceptional control utilizing "T4" or "T6" ceramic metal halide lamps and produce extraordinarily effective distributions. Miniray luminaires are also available with MR16 halogen lamps.



PREFIX	MOUNTING	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
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Enter the order code into the appropriate box above. Note: Philips Hadco 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

M12A Miniray Aluminum Housing
M12B Miniray Brass Housing

M15A Mantaray Aluminum Housing
M15B Mantaray Brass Housing

MOUNTING

S Surface Mount
G Ground Mount

DISTRIBUTION

HFL Horizontal Flood
NFL Narrow Flood
MR Use if specifying MR16 Lamp
Available with M12 only.
Relies on MR16 lamp for beam spread.

WATTAGE

	<i>Miniray M12 Only</i>	<i>Mantaray M15 Only</i>
Ceramic Pulse Start MH -T Lamp Magnetic Ballast ¹	T39MH¹ (Utilizes T4.5 Lamp)	T39MH¹ (Utilizes T6 Lamp) T70MH¹ (Utilizes T6 Lamp)
MR16 Lamps	MR16 (71w maximum, 51w maximum for Ceiling Mount)	
T4 DC Base Quartz Lamps		100QTZ (120V only)

VOLTAGE

120
277
347 (Available with M15 -T70MH only.)

¹. T39MH and T70MH wattages are supplied with the proper T4.5 or T6 lamp with the luminaire.

Miniray and Mantaray

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MI2 / MI5 Series Luminaires

FINISH

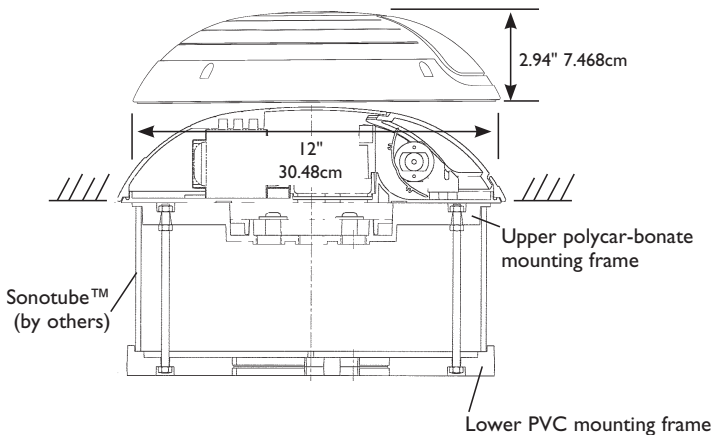
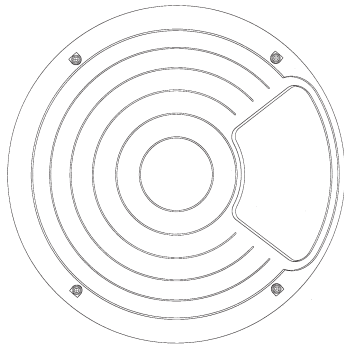
BRP	Bronze Paint
BLP	Black Paint
WP	White Paint
NP	Natural Aluminum Paint
BGP	Beige Paint
VP	Verde Green Paint
OC	Optional Color Paint <i>Specify Optional Color or RAL ex: OC-LGP or OC-RAL7024.</i>
SC	Special Paint <i>Specify. Must supply color chip.</i>
UNP	Unpainted <i>Available with M12B or M15B only.</i>

OPTIONS

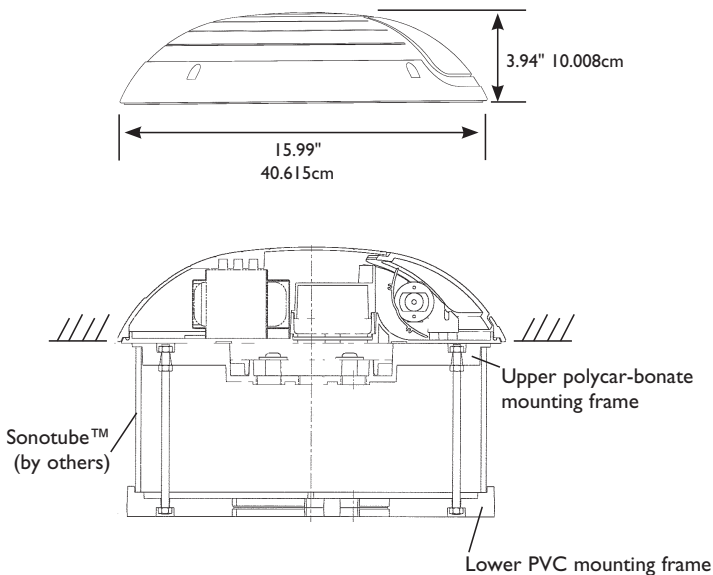
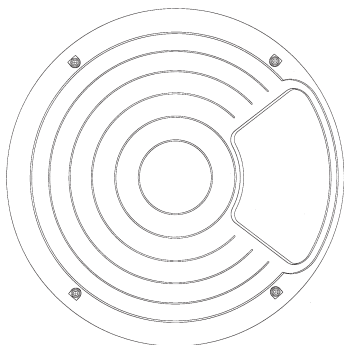
F	Fusing <i>T39MH or T70MH only</i>
LG	Louver Guard

DIMENSIONS

Miniray



Mantaray



SPECIFICATIONS

GENERAL: Philips Hadco Miniray and Mantaray outdoor luminaires utilize compact metal halide lamps or MR16 halogen lamps (Miniray only) and are suitable for wall mounting, ceiling mounting or ground mounting. Housing and mounting base are die cast aluminum or brass. Luminaire optical systems provide either a narrow flood or a horizontal flood distribution, with the exception of MR16 types which provide a distribution based on the selection of the MR16 lamp.

HOUSINGS: Housings are single-piece aluminum or brass diecastings in the form of a shallow dome. Optically clear, tempered 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 (by others). 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. MR16 types provide a distribution based on the selection of the MR16 lamp. Units may be rotated 360° horizontally and provide vertical aiming to 90°. Miniray optical systems are designed to accept T-4.5 ceramic metal halide lamps with a G-8.5 bi-pin base or MR16 lamps. Mantaray optical systems accept T-6 ceramic metal halide lamps with a G-12 bi-pin base or T-4 Quartz lamp with double contact bayonet base.

ELECTRICAL: All luminaires utilize magnetic metal halide ballasts that are high power factor and designed for reliable lamp starting to -20°F. G-12 and G-8.5 base bi-pin sockets are glazed porcelain with nickel plated contacts. lamps.

FINISH: Each luminaire receives a fade and abrasion resistant electrostatically applied, thermally cured, (TGIC) polyester powdercoat finish., unless specified with a brass housing and an unpainted finish.

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

WARRANTY: Miniray and Mantaray luminaires feature a 5 year limited warranty. See Warranty Information for complete details and exclusions.

