

# Mercmaster™ II HID Luminaires

## High Pressure Sodium and Pulse Start Metal Halide. Mogul Base

UNILETS® for Use with Threaded Metal Conduit.

Class I, Division 2, Groups A, B, C, D †  
Class II, Division 1 and 2, Groups E, F, G †  
Class III  
Fixtures Outside Type (Salt Water)

### Applications

- Enclosed and gasketed HID lighting fixtures for use in tunnels, walkways, bridges, storage facilities, processing plants, parking lots, foundries, manufacturing plants, power plants and other locations where moisture, dirt, dust or corrosive atmospheres are encountered.
- Fixtures suited for Class I, Division 2; Class II, Division 1 and 2; and Class III. Suitable for use in wet and outdoor saltwater locations.
- Wide range of wattages and voltages. Choice of ballasts for 100 W-200 W PSMH; and 50 W-150 W HPS lamps in 120, 208, 240, 277 and 480 voltages.
- Choice of light sources: high pressure sodium and pulse start metal halide.
- Choice of optical assemblies: (1) prismatic globe with or without guard through 200 W; or (2) Type V closed prismatic glass refractor through 200 W. (Types II, III and IV also available through 200 W. Also polycarbonate globes for 100 W max.)
- Choice of mounting hoods: pendant (rigid or flexible), 25° (angle) stanchion, ceiling and wall mounting.
- Porcelain reflector for standard applications and Fiberglass reinforced polyester reflector for installations where luminaire is subject to exceptionally severe corrosive atmospheres.

### Features

- Superior corrosion-resistance: copperfree aluminum mounting hoods, ballasts and guards with epoxy powder coat, inside and out.
- Standard pendant mounting hood for rigid or flexible mounting. Balanced round design automatically hangs plumb when used with flexible hanger.
- Positive sealing. Hinge and bolt construction assures 360° compression at all points on gasket.
- One-piece ballast housing for each component provides even heat dissipation for cooler operation and longer ballast life.
- Heat barrier isolates capacitor from ballast. Standard non-PCB biodegradable capacitors installed in separate compartment.
- Mogul socket is furnished with 392 °F/200 °C welded leads, pre-wired to the ballast.
- Porcelain socket assures trouble-free operation in high ambient installations.
- Guards protect globes from damage. Keyhole slots allow easy installation and are secured with stainless steel screws.
- Prismatic glass globes and glass refractors are standard (plastic refractors also available) and thread directly into fixture housing. Eliminate glare and provide uniform light distribution.
- Vented reflectors result in cooler, dirt-free operation, increased lumen output.
- Reflectors secured to mounting hood with screws (furnished).
- Choice of reflector styles: white porcelain enamel or Fiberglass reinforced polyester; standard dome or 30° angle.
- Optional photocell provides automatic "on-off" control.
- All Mercmaster mounting hoods have provision for easy field installation of fuses in fixtures (see fuse kit listings).



### Standard Materials

- Mounting hoods, ballast bodies and guards: copperfree (4/10 of 1% max.) aluminum
- Reflectors: fiberglass reinforced polyester
- Globes: 50 W-100 W, threaded prismatic glass; 150 W, 175 W and 200W, threaded heat-resistant prismatic glass
- Refractors: 50 W to 150 W, heat-resistant prismatic glass and plastic; 175 W to 200 W, prismatic glass

### Standard Finishes

- Mounting hoods, ballast bodies, guards: epoxy powder-coat finish. Two-coat baked finish, electrostatically applied for complete uniform surface protection
- Polyester reflectors: natural finish

### Options

- Fuses for fixtures. For fuse kits see *Electrical Specifications and Fuse Kits* page.
- MH fixtures for Quartz Auxiliary lamps. Relay switch installed in fixture when specified. Add suffix **-MTE** to fixture catalog number for 120 V through 277 V, and suffix **-480E** to fixture catalog number for 480 V fixture.
- Smart Hot Restrike emergency option, available for 50 W-150 W HPS only. Add suffix **-SR**. See *50 W, 70 W, 100W, 150 W HPS* page.
- Hot Restrike option add suffix **-R**.
- Smart Starter available for HPS and PSMH. Add suffix **-S**.

### Certifications and Compliances

- UL Standard: UL 1598, UL 1598A, UL 844
- UL Listed: E10444

† For specific Class I suitability of each fixture listed, see *Thermal Suitability*.

‡ For 175 W and 200 W fixtures, use 12" refractor only for Groups E, F and G. Heat-resistant glass globe supplied with 175 W and 200 W fixtures.






**Note:** Fixtures equipped with optional photocell or quartz auxiliary lamp do not comply with UL requirements and are not suitable for use in classified locations.

# Mercmaster™ II HID Luminaires Mounting Hoods and Ballast Bodies

## High Pressure Sodium and Pulse Start Metal Halide. Mogul Base

Hoods and Ballast Housings are Copperfree Aluminum (4/10 of 1%).

Class I, Division 2, Groups A, B, C, D †  
 Class II, Division 1 and 2, Groups E, F, G ‡  
 Class III  
 Fixtures Outside Type (Salt Water)

Mounting Hoods		Description	Hub Size (Inches)	Catalog Number
<b>Pendant</b>				
	One Hub, Rigid or Flexible Mounting	3/4	<b>LPA-75</b>	
		1	<b>LPA-100</b>	
<b>Ceiling</b>				
	Five Hubs, Four Close-Up Plugs	3/4	<b>LPC-75</b>	
		1	<b>LPC-100</b>	
<b>Wall</b>				
	Five Hubs, Four Close-Up Plugs	3/4	<b>LPWB-75</b>	
		1	<b>LPWB-100</b>	
<b>25° Stanchion</b>				
	One Hub	1-1/4	<b>LPS-125</b>	
		1-1/2	<b>LPS-150</b>	
<b>Mounting Adapter</b>				
	Permits use of Mercmaster II pendant hood on existing V-51 and Mercmaster I mounting hoods. Remove Mercmaster I ballast body from existing mounting hood, thread in adapter and attach wire to Mercmaster II.		<b>LPAD-1</b>	

### Mercmaster II Ballast Bodies

Type	Lamp Watts	Ballast Body Catalog Numbers		Add Voltage Suffixes ❶					
		Globe/12" Refractor	8" Refractor	120V	208V	240V	277V	480V	
<b>High Pressure Sodium</b>									
	50	<b>LPB50L</b>	<b>LPBLH50R</b>	-MT	-MT	-MT	-MT	-	
High Power Factor (Min. P.F. 90%)	70	<b>LPB70L</b>	<b>LPBLH70R</b>	-MT	-MT	-MT	-MT	-480	
	100	<b>LPB100L</b>	<b>LPBLH100R</b>	-MT	-MT	-MT	-MT	-480	
	150	<b>LPB150L</b>	<b>LPBLH150R</b>	-MT	-MT	-MT	-MT	-480	
<b>Pulse Start Metal Halide</b>									
	100	<b>LPB100H</b>	<b>LPBH100R</b>	-MTMED	-MTMED	-MTMED	-MTMED	-480MED	
Constant Wattage (Min. P.F. 90%)	150	<b>LPB150P</b>	<b>LPBP150R</b>	-MT	-MT	-MT	-MT	-480	
	175	<b>LPB175P</b>	<b>LPBP175R</b>	-MT	-MT	-MT	-MT	-480	
	200	<b>LPB200P</b>	<b>LPBP200R</b>	-MT	-MT	-MT	-MT	-480	



† For specific Class I suitability of each fixture listed, see Thermal Suitability.

‡ For 175 W and 200 W fixtures, use 12" refractor only for Groups E, F and G. Heat-resistant glass globe supplied with 175 W and 200 W fixtures.

❶ MT (multi-volt) ballasts can be operated at an input voltage of either 120, 208, 240 or 277 V. 480 ballasts can be operated at input voltage of 480 V.