Code•Master ™ Jr. HID Factory Sealed Luminaires

Explosionproof, Dust-Ignitionproof

Integrally Ballasted. 50 W, 70 W, 100 W, 150 W HPS; 175 W PSMH. 175 W MH ①. Medium Base. For Use with Threaded Metal Conduit.

NEC:
Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
Marine type electric fixtures, outside type (salt water)

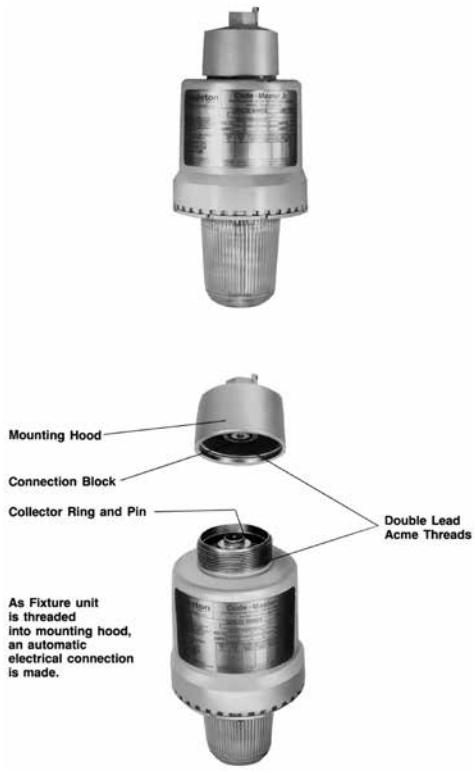
CEC:
Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1 and 2, Groups E, F, G
Class III
Type 4X
Exd IIB + H_2

Applications

- For use in chemical and petrochemical plants, such as manufacturers of plastics, paints and thinners; in refineries; and in other areas where ignitable vapors, dust, moisture and corrosive elements may be present.
- Suitable for outdoor saltwater locations and for other wet locations.

Features

- Fixtures operate safely in high ambient temperatures.
- Arrangement of heat-producing components results in efficient heat dissipation for cooler fixture operation.
- Patented "wireless" design. Threading of fixture unit onto mounting hood makes electrical connection. Only wiring required is attaching two wires to connection block in mounting hood.
- Connection block is easily wired: (a) loosen two screws, (b) make wire connections, and (c) re-position connection block.
- Safe, easy servicing without disconnecting any wiring. "Wireless" fixture unit threads off mounting hood for convenient servicing or for immediate replacement with a "stand-by" unit.
- Acme double-lead threads speed installation and fixture removal from mounting hood – only half as many turns are required as for single-lead threads. The threads do not stick or gall, eliminating problems often encountered with single-lead threads during fixture unit removal.
- All threaded joints are flame-tight.
- Integrally ballasted HID lighting fixtures; separate ballasts not required.
- Factory sealed. External seals not required for Groups C and D.
- Fixtures for use in NEC Group B locations furnished complete with UL required sealing fitting. Not required for CEC approval.
- Strategic location of lamp socket, in combination with interior prism design of the glass globe, provides optimum light distribution and control.
- Heat and impact-resistant globes have smooth dust-resistant exterior.
- Superior corrosion resistance, with epoxy powder coat finish.
- Shock-absorbing medium-base socket mounts prolong lamp life.
- Porcelain socket with nickel-plated phosphor bronze screw shell.
  Assures long trouble-free operation in high ambient areas.
- Choice of mountings: pendant, ceiling, bracket and stanchion.
- Fiberglass-reinforced polyester reflectors, in standard dome, or 30° angle styles, are ideal in installations where luminaire is subject to exceptionally severe corrosive atmospheres.
- Optional guards protect globes from damage. Secured to fixture with three stainless steel screws.
- Variety of light sources: high pressure sodium, pulse start metal halide and metal halide. HPS is excellent where long lamp life is required. HPS provides high lumens per watt and is less expensive to operate. PSMH and MH are desirable where colors in illuminated areas must be close to natural.
- A wide range of ballasts and voltages are available for both domestic and export applications.
- Ballasts operate at low temperatures – PSMH/MH: -29 °C (-20 °F); HPS: -40 °C (-40 °F).
- 50 W through 150 W high pressure sodium ballasts are high reactance, high power factor type.



Standard Materials

- Ballast bodies and guards: copperfree (4/10 of 1% max.) aluminum
- Pendant mounting hoods: diecast copperfree (4/10 of 1% max.) aluminum
- Ceiling, bracket and stanchion mounting hoods: sand cast copperfree (4/10 of 1% max.) aluminum
- Reflectors: fiberglass reinforced polyester

Standard Finishes

- Ballast bodies, guards and mounting hoods: epoxy powder coat finish, electrostatically applied for complete, uniform corrosion protection

Options

- Fuses: order fuses for field installation by catalog number, see *Ballast and Fuse Kit Data*.
- "Hot Restrike" – add suffix **-R**. "Smart Starter" – add suffix **-S**. Emergency Options available for 50 W through 150 W HPS only.
- For CEC Exd IIB + H_2 rating, add suffix **-Z**.
- For safety chain, add suffix **-SC**.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10444
- CSA Standard: C22.2 No. 250, C22. 2No. 137
- CSA Certified: 025428

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		+40 °C (+104 °F) ③		+55 °C (+131 °F) ③		+65 °C (+149 °F) ③		+40 °C (+104 °F) ④	
Lamp Watts	Ballast Type ②	Ambient Temp. "T" Numbers	Supply Wire Temp °C (°F)	Ambient Temp. "T" Numbers	Supply Wire Temp °C (°F)	Ambient Temp. "T" Numbers	Supply Wire Temp °C (°F)	Ambient Temp. "T" Numbers	Supply Wire Temp °C (°F)
High Pressure Sodium — Medium Base Lamps									
50	MT, TT	T6	75 (167)	T5	75 (167)	T4A	75 (167)	T4	75 (167)
70	MT, TT, 480 V	T5	75 (167)	T4A	75 (167)	T4A	75 (167)	T4	90 (194)
100	MT, TT, 480 V	T4A	75 (167)	T4	90 (194)	—		T3B	90 (194)
150	MT, TT, 480 V	T3C	75 (167)	—		—		—	
Pulse Start Metal Halide — Medium Base Lamps									
175	MT, TT, 480 V	T3B	90 (194)	—		—		—	
Metal Halide① — Medium Base Lamps									
175	MT, TT, 480 V	T3B	85 (185)	—		—		—	

"T" Numbers Represent the Maximum Surface Temperature for Class I, Division 1 Locations and Maximum Surface Temperature Under Dust Blanket for Class II, Division 1 Locations.

"T" Number	T1	350	325	T2	T2A	T2B	T2C	T2D	T3	T3A	T3B	T3C	T4	T4A	T5	T6
Temp. Range (°C)	351-450	326-350	301-325	281-300	261-280	231-260	216-230	201-215	181-200	166-180	161-165	136-160	121-135	101-120	86-100	85
Temp. Range (°F)	664-842	619-662	574-617	538-572	502-536	448-500	421-446	394-419	358-392	331-356	322-329	277-320	250-275	214-248	187-212	185

Fixture and Accessory Weights kg (lb)

Fixture Size	Fixture Weight	Reflector Weight	Guard Weight
50 W thru 175 W	12.70-14.51 (28-32)	1.36 (3)	0.45 (1)

Mounting Hood Weights kgs (lbs)

Pendant	Ceiling	Bracket	Stanchion
0.91 (2)	1.81 (4)	2.72 (6)	0.91 (2)

NOTE: The maximum operating temperature of the fixture must not exceed the ignition temperature of the gas, vapor or dust to be encountered per the National Electrical Code and the Canadian Electrical Code.

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② MT is Multi-Tap for 120/208/240/277 V, TT is Tri-Tap for 120/277/347 V.

③ Class I, Division 1 Locations.

④ Class II, Division 1 Locations.

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Mounting Hoods

	Hub Size (Inches)	Catalog Number
Pendant — One Hub		
	3/4	**CAP-75**
	1 ③	**CAP-100**
Ceiling — Four Hubs, Three Close-Up Plugs		
	3/4	**CAC-75**
	1 ③	**CAC-100**
Bracket — Four Hubs, Three Close-Up Plugs		
	3/4	**CALB-75**
	1 ③	**CALB-100**
25° Stanchion — One Hub		
	1-1/4 or 1-1/2 ②	**CAS-150**
Mounting Adapter with Connection Block		
	Permits use of existing A-51 mounting hoods (AAC Ceiling or AALB Bracket) with the new Code•Master 2 Fixture Unit. After removing existing fixture unit and adapter, screw in the new CMAD-1 Adapter. Then thread new fixture unit into the CMAD-1.	**CMAD-1**

Fixture Units
Ballast body with globe. Indicate voltage desired by adding voltage suffix to fixture unit catalog number listed below.

Type	Lamp Watts	Fixture Unit Number	Add Voltage Suffixes 120/208/240/277	120/277/347 ⑤	480 V
High Pressure Sodium ④ High Power Factor (Min. P.F. 90%)	50	**CJB50L-**	**MT**	**TTCN**	**—**
	70	**CJB70L-**	**MT**	**TTCN**	**48**
	100	**CJB100L-**	**MT**	**TTCN**	**48**
	150	**CJB150L-**	**MT**	**TTCN**	**48**
Pulse Start Metal Halide Constant Wattage (Min. P.F. 90%)	175	**CJB175P-**	**MT**	**TTCN**	**48**
Metal Halide Constant Wattage (Min. P.F. 90%)	175	**CJB175H-**	**MT**	**TT**	**C6**

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② *1-1/2" Tapped hub furnished with 1-1/2" to 1-1/4" reducer.*
③ *Mounting Hoods with 1" hub listed for Class I, Group D; Class II, Groups E,F,G; and Class III only.*
④ *Add suffix **-R** for "Hot Restrike" and **-S** for "Smart Starter" options.*
⑤ *Change voltage suffix -**TTCN** to -**MTCN** for 120/208/240/277 V, -**C2** for 208 V, -**C3** for 240 V, -**C6** for 480 V, or -**C7** for 600 V. These voltage suffixes have CSA Certification only.*

◆ *Shaded area indicates items suitable for Class I, Division 1, Group B.*