

Code•Master 2™ HID Factory Sealed Floodlights

Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 150 W, 175 W, 250 W, 320 W, 350 W, 400 W PSMH; 175 W, 250 W, 400 W MH  Mogul Base.

NEC:

Class 1, Division 1 and 2, Groups C, D
Marine Type Electric Fixtures
Outside Type (Salt Water)

CEC:

Class I, Division 1 and 2, Groups B, C, D
Class II, Division 1, Groups E, F, G
Class II, Division 2, Groups F, G
Class III
CSA 4X

Applications

- UL Listed for Marine Type Electric Fixtures Outside Type (Salt Water).
- Ideal in Class I, Division 1 and 2 installations in refineries, in pipeline transportation facilities, at drilling rigs and in production facilities on land and marine platforms.
- Class I, Division 1 areas include:
 - (1) enclosed derricks, mud tanks, desander-desilter, gas-operated control devices, oil-gas separation vessels, shale shakers and flowing or beam wells
 - (2) flowing or beam wells in open areas with cellar or below grade sump
 - (3) on refinery docks where tankers are loaded with hoses or loading arms
 - (4) in compressor buildings (open or enclosed) where methane gas is present
- Virtually all enclosed areas at drilling operations or refineries where ventilation is inadequate, or where a cellar or below grade sump exists, are Class I, Division 1.

Features

- Choice of mountings: (1) crossarm with degree indicator; (2) junction box for horizontal or vertical mount; and (3) swivel for pole mount (screws onto standard 2" pipe threads).
- Fixtures operate safely in high ambient temperatures. For example, in Class I areas the 150 W HPS unit operates at a maximum fixture surface temperature of 248 °F/120 °C in a 149 °F/65 °C ambient (212 °F/100 °C temperature in a 104 °F/40 °C ambient).
- Arrangement of heat-producing components results in more efficient heat dissipation for cooler fixture operation.
- All threaded joints are flame-tight.
- Five threads are always fully engaged in an explosionproof manner.
- Factory sealed. External seals not required.
- Strategic location of lamp socket, in combination with the 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.
- Ballasts operate at low temperatures – PSMH: -20 °F/-29 °C; HPS: -40 °F/-40 °C.

Standard Materials

- Ballast housing, guard and junction box, and pole mounts: copperfree (4/10 of 1% max.) aluminum
- Crossarm mount: malleable iron
- Trunnion: steel.
- High bay reflector: aluminum
- Standard dome, deep dome and 30° angle reflectors: fiberglass reinforced polyester
- Socket: porcelain
- Screw shell: nickel-plated phosphor bronze

Standard Finishes

- Ballast housing, guard, trunnion and mounting accessories: epoxy-clad finish. Powder coat baked finish, electrostatically applied for complete, uniform corrosion protection



Shown with Optional High Bay Reflector

Effective Protected area: 1.8 Square Feet

Options

- Fuses for field installation are ordered by catalog number from the fuse kit table
- Quartz Auxiliary Emergency Lamp for PSMH and HPS fixtures. Relay switch installed fixture. Add suffix **-E** to fixture catalog number.
- "Smart Hot Restrike" Emergency Option available for 150 W HPS. Add suffix **-SR**.
- Hot Restrike Option available for 150 W HPS. Add suffix **-R**.
- Smart Starter. Add suffix **-S**


Certifications and Compliances

- UL Standard: UL 1598, UL 844
- UL Listed: E10794
- CSA Standard: C22.2 No. 250, C22.2 No. 137
- CSA Certified: 025428


 CSA Certification only.

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Classified Area Suitability — Suitability includes use of reflector

Lamp Type	Lamp Watts	Supply Wire (°F/°C)	Ambient Temp (°F/°C)	Class I, Division 1 & 2 With Globe or with Globe & Reflector UL/NEC/CEC Temp. Ident. No.			Class II, Division 1 & 2 With Globe or with Globe & Reflector CEC Temp. Ident. No.	
				Nameplate Marking	NEC Groups	CEC  Groups	Nameplate Marking	CEC  Groups
High Pressure Sodium	150	122/60	104/40	T5	C,D	B, C, D	T3A	E,F
	150	167/75	131/55	—	C,D	B, C, D	T3	—
	250	167/75	104/40	T4	C,D	B, C, D	—	—
	250	167/75	131/55	—	C,D	B, C, D	—	—
	400	185/85	104/40	T3A	C,D	B, C, D	—	—
Pulse Start Metal Halide	175	167/75	104/40	T3B	C,D	B, C, D	T3C	E,F,G
	250	167/75	104/40	T3B	C,D	B, C, D	T3A	E,F
	320	167/75	104/40	T3	C,D	B, C, D	—	—
	350	167/75	104/40	T3	C,D	B, C, D	—	—
	400	167/75	104/40	T3	C,D	B, C, D	—	—
Metal Halide 	175	167/75	104/40	T4	—	B, C, D	T3C	E, F, G
	250	167/75	104/40	T4	—	B, C, D	T3A	E, F
	400	167/75	104/40	T3C	—	B, C, D	—	—





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	Lamp Watts	ANSI Lamp Type		Catalog Number ①②	
		HPS	PSMH	HPS	PSMH
Fixture Unit					
	Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)				
	150	S55	M102	CFL150MT	CFP150MT
	175	—	M137/M152	—	CFP175MT
	250	S50	M138/M153	CFL250MT	CFP250MT
	320	—	M145	—	CFP320MT
	350	—	M131	—	CFP350MT
	400	S51	M135/M155	CFL400MT	CFP400MT
Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②					
	3/4" fixture hub and two conduit openings (3/4 – 14 NPT). 30" Flexible Coupling connects to 3/4" fixture hub and to 1/2" junction box opening. Furnished with one 3/4" Close-up Plug. Has Locking Screw for horizontal adjustment.				
	150	S55	M102	CFL150JBMT	CFP150JBMT
	175	—	M137/M152	—	CFP175JBMT
	250	S50	M138/M153	CFL250JBMT	CFP250JBMT
	320	—	M145	—	CFP320JBMT
	350	—	M131	—	CFP350JBMT
	400	S51	M135/M155	CFL400JBMT	CFP400JBMT
Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②					
	2" tapered threads (2 – 11-1/2 NPT). Locking Screw for horizontal adjustment. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to 1/2" pole-top opening (1/2-14 NPT).				
	150	S55	M102	CFL150SFMT	CFP150SFMT
	175	—	M137/M152	—	CFP175SFMT
	250	S50	M138/M153	CFL250SFMT	CFP250SFMT
	320	—	M145	—	CFP320SFMT
	350	—	M131	—	CFP350SFMT
	400	S51	M135/M155	CFL400SFMT	CFP400SFMT
Fixture Unit with Crossarm Mounting ②					
	For mounting to flat surface. 180° horizontal adjustment with degree indicator. 30" Flexible Coupling connects to 3/4" fixture hub (3/4 – 14 NPT) and to any 1/2" opening (1/2 – 14 NPT).				
	150	S55	M102	CFL150CAMT	CFP150CAMT
	175	—	M137/M152	—	CFP175CAMT
	250	S50	M138/M153	CFL250CAMT	CFP250CAMT
	320	—	M145	—	CFP320CAMT
	350	—	M131	—	CFP350CAMT
	400	S51	M135/M155	CFL400CAMT	CFP400CAMT


① To order fixture with guard, add suffix -G before voltage suffix.

② Fixtures furnished with trunnion and bolts, flexible coupling and fittings, and mounting accessory. The trunnion provides vertical adjustment and the mounting accessory provides horizontal adjustment.

③ Change suffix -MT (120/208/240/277 V) to -480 for 480 V.

Code•Master 2™ HID Factory Sealed Floodlight Ballast and Fuse Data

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Lamp		High Pressure Sodium 		Ballast Amps		Metal Halide CWA		Fuse Quantity Required	Fuse Kit Catalog Number		
				Pulse Start	Metal Halide Super CWA				HPS	PSMH	MH
Watts	Volts	Start	Operating	Start	Operating	Start	Operating				
150	120	2.00	1.66	—	—	—	—	1	CF-10	—	—
	208	1.16	0.96	—	—	—	—	2	CF-5	—	—
	240	1.00	0.83	—	—	—	—	2	CF-5	—	—
	277	0.88	0.75	—	—	—	—	1	CF-5	—	—
	347	0.52	0.56	—	—	—	—	1	CF-5	—	—
	480	0.50	0.44	—	—	—	—	2	CF-3	—	—
175	120	—	—	1.10	1.86	1.30	1.80	1	—	CF-5	CF-5
	208	—	—	0.75	1.23	0.75	1.10	2	—	CF-3	CF-3
	240	—	—	0.65	0.98	0.65	0.90	2	—	CF-3	CF-3
	277	—	—	0.55	0.87	0.55	0.80	1	—	CF-2	CF-2
	347	—	—	0.25	0.65	0.50	0.65	1	—	CF-2	CF-2
	480	—	—	0.25	0.50	—	—	2	—	CF-2	—
250	120	1.75	2.70	1.96	2.50	1.20	2.60	1	CF-8	CF-8	CF-8
	208	1.00	1.50	1.13	1.45	0.65	1.50	2	CF-5	CF-5	CF-5
	240	0.85	1.30	0.98	1.25	0.60	1.30	2	CF-5	CF-5	CF-5
	277	0.75	1.15	0.85	1.10	0.50	1.12	1	CF-5	CF-3	CF-3
	347	0.60	0.93	0.62	0.90	0.80	0.90	1	CF-5	CF-3	CF-3
	480	0.40	0.65	0.32	0.67	—	—	2	CF-2	CF-2	—
320	120	—	—	3.30	3.25	—	—	1	—	CF-8	—
	208	—	—	1.90	1.90	—	—	2	—	CF-6	—
	240	—	—	1.60	1.65	—	—	2	—	CF-5	—
	277	—	—	1.40	1.40	—	—	1	—	CF-5	—
	347	—	—	0.70	1.10	—	—	1	—	CF-5	—
	480	—	—	0.45	0.85	—	—	2	—	CF-3	—
350	120	—	—	3.60	3.70	—	—	1	—	CF-10	—
	208	—	—	2.10	2.10	—	—	2	—	CF-8	—
	240	—	—	1.80	1.80	—	—	2	—	CF-5	—
	277	—	—	1.60	1.60	—	—	1	—	CF-5	—
	347	—	—	0.70	1.01	—	—	1	—	CF-5	—
	480	—	—	0.60	0.90	—	—	2	—	CF-3	—
400	120	3.10	3.90	3.50	4.00	3.25	4.00	1	CF-15	CF-10	CF-10
	208	1.80	2.25	2.00	2.30	1.90	2.30	2	CF-8	CF-8	CF-8
	240	1.60	1.95	1.75	2.00	1.65	2.00	2	CF-5	CF-5	CF-5
	277	1.35	1.70	1.50	1.75	1.40	1.75	1	CF-5	CF-5	CF-5
	347	1.00	1.32	1.10	1.35	1.20	1.40	1	CF-5	CF-5	CF-5
	480	0.80	1.00	0.75	1.00	—	—	2	CF-5	CF-3	—

Fuse Kit includes fuse, fuse holder and necessary hardware for field installation. Mounts easily in ballast body with one screw. Order one fuse for 120 and 277 V, and 2 fuses for 208, 240 and 480 V. **CF-2** = 2 amp; **CF-3** = 3 amp; **CF-5** = 5 amp; **CF-6** = 6 amp; **CF-8** = 8 amp; **CF-10** = 10 amp
 50 through 150 W HPS have H.P.F. High Reactance ballasts; 250 W and 400 W HPS have CWA ballasts.

 CSA Certification only.