

# 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 operateSee page 1290 for classified area suitability.
- 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: -29 °C (-20 °F); HPS: -40 °C (-40 °F).

### 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.
- Hot Restrike Option available for 150 W HPS. Add suffix **-R**.
- Smart Starter. Add suffix **-S**

### NEC/CEC 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

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**Classified Area Suitability — Suitability includes use of reflector**

Lamp Type	Lamp Watts	Supply Wire °C (°F)	Ambient Temp °C (°F)	Class I, Division 1 and 2 With Globe or with Globe and Reflector UL/NEC/CEC Temp. Ident. No.			Class II, Division 1 and 2 With Globe or with Globe and Reflector CEC Temp. Ident. No.	
				Nameplate Marking	NEC Groups	CEC Groups	Nameplate Marking	CEC Groups
High Pressure Sodium	150	50 (122)	40 (104)	<b>T5</b>	C,D	B, C, D	<b>T3A</b>	E,F
	150	75 (167)	55 (131)	—	C,D	B, C, D	<b>T3</b>	—
	250	75 (167)	40 (104)	<b>T4</b>	C,D	B, C, D	—	—
	250	75 (167)	55 (131)	—	C,D	B, C, D	—	—
	400	85 (185)	40 (104)	<b>T3A</b>	C,D	B, C, D	—	—
Pulse Start Metal Halide	175	75 (167)	40 (104)	<b>T3B</b>	C,D	B, C, D	<b>T3C</b>	E,F,G
	250	75 (167)	40 (104)	<b>T3B</b>	C,D	B, C, D	<b>T3A</b>	E,F
	320	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
	350	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
	400	75 (167)	40 (104)	<b>T3</b>	C,D	B, C, D	—	—
Metal Halide ①	175	75 (167)	40 (104)	<b>T4</b>	—	B, C, D	<b>T3C</b>	E, F, G
	250	75 (167)	40 (104)	<b>T4</b>	—	B, C, D	<b>T3A</b>	E, F
	400	75 (167)	40 (104)	<b>T3C</b>	—	B, C, D	—	—

① Mercury vapor and metal halide luminaires are not available for purchase within the United States. Please check with your countries governing legislation regarding allowable lamp types before ordering.

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Lamp Watts	HPS	ANSI Lamp Type			HPS	Catalog Number ①③	
		PSMH	MH	PSMH		MH	
<b>Fixture Unit</b>							
Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)							
	150	S55	M102	—	<b>CFL150TTCN</b>	<b>CFP150TTCN</b>	—
	175	—	M137/M152	M57/H39	—	<b>CFP175TTCN</b>	<b>CFH175TTCN</b>
	250	S50	M138/M153	M58/H37	<b>CFL250TTCN</b>	<b>CFP250TTCN</b>	<b>CFH250TTCN</b>
	320	—	M145	—	—	<b>CFP320TTCN</b>	—
	350	—	M131	—	—	<b>CFP350TTCN</b>	—
	400	S51	M135/M155	M59/H33	<b>CFL400TTCN</b>	<b>CFP400TTCN</b>	<b>CFH400TTCN</b>
<b>Fixture Unit with Junction Box for Horizontal or Vertical Mounting ②</b>							
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	—	<b>CFL150JBTTTCN</b>	<b>CFP150JBTTTCN</b>	—
	175	—	M137/M152	M57/H39	—	<b>CFP175JBTTTCN</b>	<b>CFH175JBTTTCN</b>
	250	S50	M138/M153	M58/H37	<b>CFL250JBTTTCN</b>	<b>CFP250JBTTTCN</b>	<b>CFH250JBTTTCN</b>
	320	—	M145	—	—	<b>CFP320JBTTTCN</b>	—
	350	—	M131	—	—	<b>CFP350JBTTTCN</b>	—
	400	S51	M135/M155	M59/H33	<b>CFL400JBTTTCN</b>	<b>CFP400JBTTTCN</b>	<b>CFH400JBTTTCN</b>
<b>Fixture Unit with Pole-Top Mount (on 2" Threaded Pipe) ②</b>							
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	—	<b>CFL150SFTTCN</b>	<b>CFP150SFTTCN</b>	—
	175	—	M137/M152	M57/H39	—	<b>CFP175SFTTCN</b>	<b>CFH175SFTTCN</b>
	250	S50	M138/M153	M58/H37	<b>CFL250SFTTCN</b>	<b>CFP250SFTTCN</b>	<b>CFH250SFTTCN</b>
	320	—	M145	—	—	<b>CFP320SFTTCN</b>	—
	350	—	M131	—	—	<b>CFP350SFTTCN</b>	—
	400	S51	M135/M155	M59/H33	<b>CFL400SFTTCN</b>	<b>CFP400SFTTCN</b>	<b>CFH400SFTTCN</b>
<b>Fixture Unit with Crossarm Mounting ②</b>							
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	—	<b>CFL150CATTTCN</b>	<b>CFP150CATTTCN</b>	—
	175	—	M137/M152	M57/H39	—	<b>CFP175CATTTCN</b>	<b>CFH175CATTTCN</b>
	250	S50	M138/M153	M58/H37	<b>CFL250CATTTCN</b>	<b>CFP250CATTTCN</b>	<b>CFH250CATTTCN</b>
	320	—	M145	—	—	<b>CFP320CATTTCN</b>	—
	350	—	M131	—	—	<b>CFP350CATTTCN</b>	—
	400	S51	M135/M155	M59/H33	<b>CFL400CATTTCN</b>	<b>CFP400CATTTCN</b>	<b>CFH400CATTTCN</b>

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 voltage suffix **-TT** (120/277/347 V) to **-MT** for 120/208/240/277 V, **-C2** for 208 V, **-C3** for 240 V, **-C6** for 480 V, or **-C7** for 600 V.

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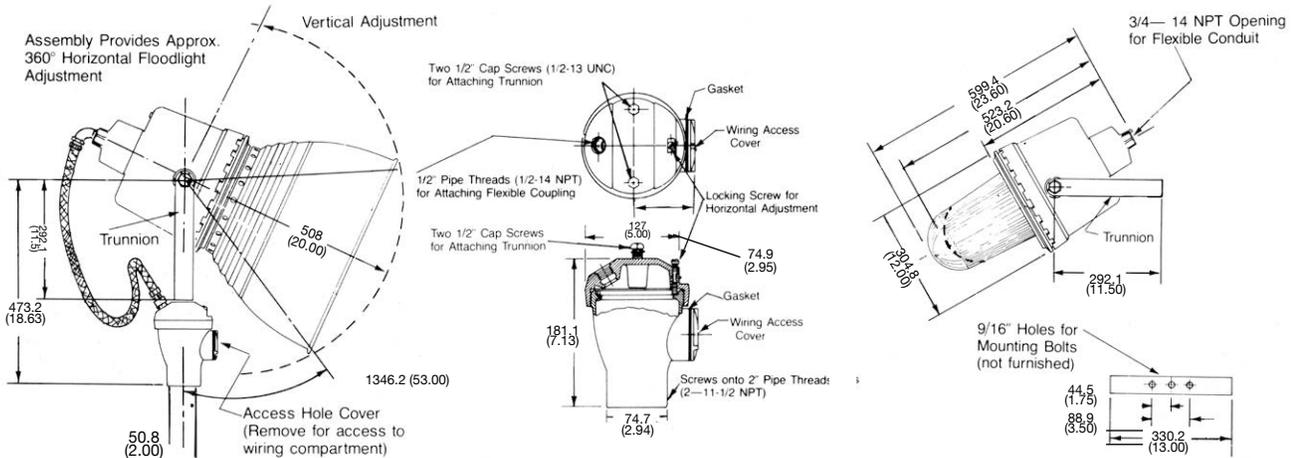
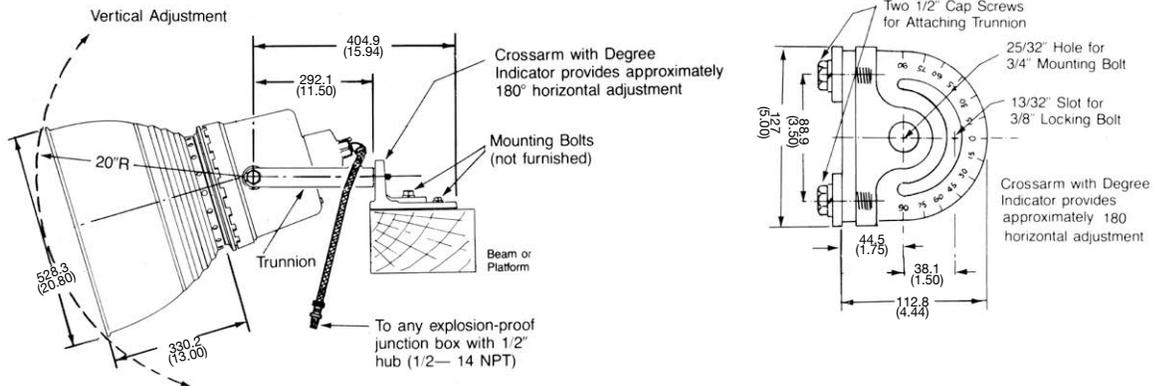
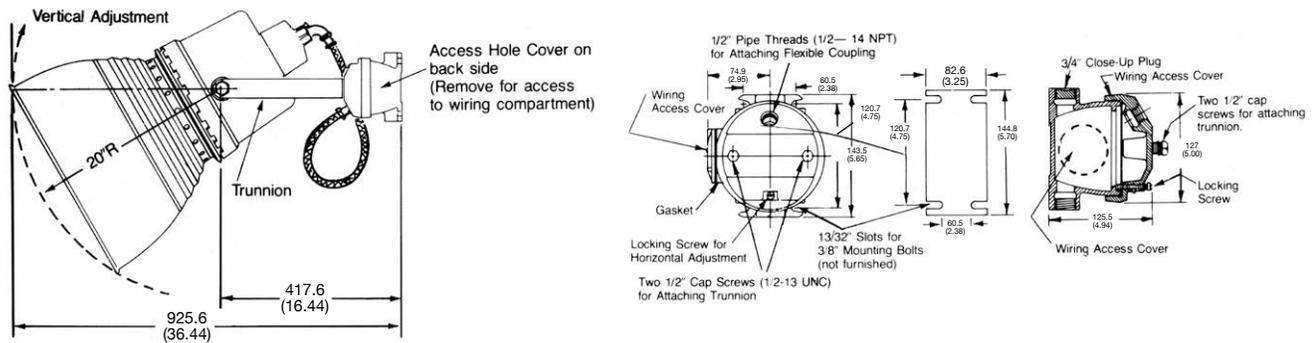
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### Dimensions in Millimeters (Inches)



### Weights kg (lb)

150 W	175 W	250 W	320 W	350 W	400 W
21 (46.30)	21 (46.30)	32 (70.55)	32 (70.55)	32 (70.55)	32 (70.55)

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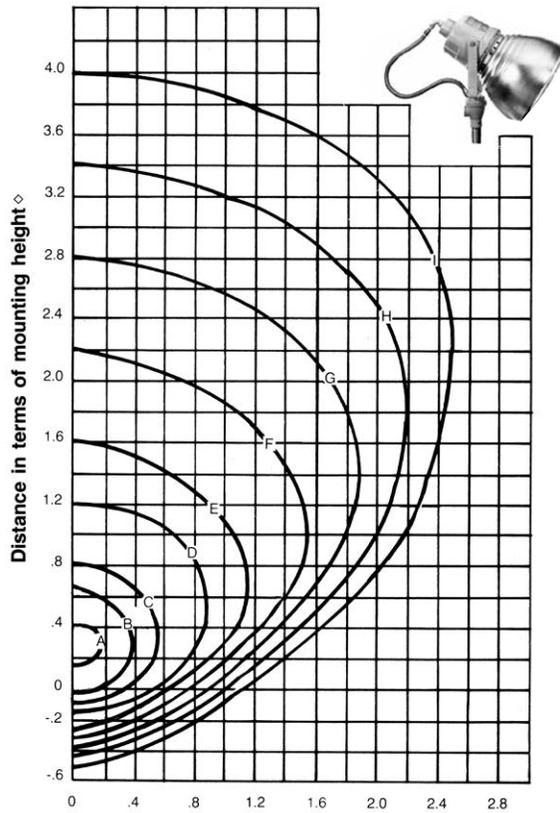
Typical Footcandle Values for Iso-Footcandle Curves. Data Based on 400 W HPS (50,000 Lumens) Clear Mogul Base Lamps.

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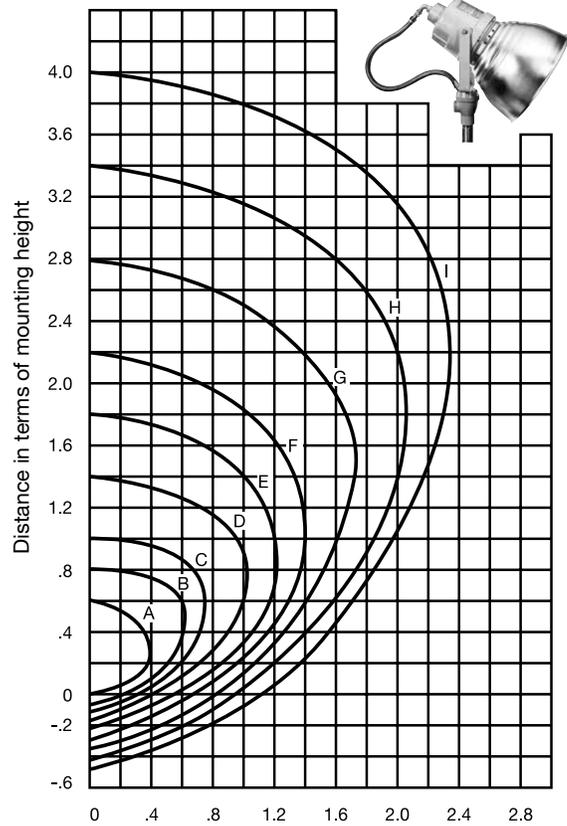
### Photometric Data

400 W HPS Floodlight at 45° Angle with High Bay Reflector ①

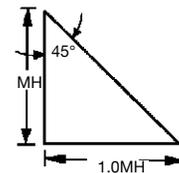
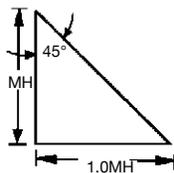


Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	52.52	43.34	31.00	17.05	10.23	4.77	2.43	1.36	0.84
20	29.54	24.38	17.44	9.59	5.75	2.68	1.37	0.77	0.47
25	18.91	15.60	11.16	6.14	3.68	1.72	0.87	0.49	0.30
30	13.13	10.84	7.75	4.26	2.56	1.19	0.61	0.34	0.31
35	9.65	7.96	5.69	3.13	1.88	0.88	0.45	0.25	0.15
40	7.39	6.10	4.36	2.40	1.44	0.67	0.34	0.19	0.12

400W MH Floodlight at 45° Angle with High Bay Reflector



Mounting Height (feet)	FOOTCANDLE VALUES FOR ISO-FOOTCANDLE CURVES								
	A	B	C	D	E	F	G	H	I
15	33.97	22.10	16.12	9.69	6.40	4.12	2.13	1.13	.67
20	19.11	12.43	9.07	5.45	3.60	2.31	1.20	.64	.38
25	12.23	7.96	5.80	3.49	2.30	1.48	.77	.41	.24
30	8.49	5.52	4.03	2.42	1.60	1.03	.53	.28	.17
35	6.24	4.06	2.96	1.78	1.18	.76	.39	.21	.12
40	4.78	3.11	2.27	1.36	.90	.58	.30	.16	.10



① For 250 Watt HPS Clear, 30,000 Lumen lamp, multiply all FTC values by 0.60.