

# Code•Master™ 2 HID Factory Sealed Floodlights

## Marine (Outside Type). Explosionproof

Integrally Ballasted. 150 W, 250 W, 400 W HPS; 175 W, 250 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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**NEC:**

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

	Lamp Watts	ANSI Lamp Type		Catalog Number ①③	
		HPS	PSMH	HPS	PSMH
<b>Fixture Unit</b>					
Furnished with Trunnion 3/4" hub. (3/4 – 14 NPT)					
	150	S55	M102	<b>CFL150</b>	—
	175	—	M137/M152	—	<b>CFP175</b>
	250	S50	M138/M153	<b>CFL250</b>	<b>CFP250</b>
	400	S51	M135/M155	<b>CFL400</b>	<b>CFP400</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>CFL150JB</b>	—
	175	—	M137/M152	—	<b>CFP175JB</b>
	250	S50	M138/M153	<b>CFL250JB</b>	<b>CFP250JB</b>
	400	S51	M135/M155	<b>CFL400JB</b>	<b>CFP400JB</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>CFL150SF</b>	—
	175	—	M137/M152	—	<b>CFP175SF</b>
	250	S50	M138/M153	<b>CFL250SF</b>	<b>CFP250SF</b>
	400	S51	M135/M155	<b>CFL400SF</b>	<b>CFP400SF</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>CFL150CA</b>	—
	175	—	M137/M152	—	<b>CFP175CA</b>
	250	S50	M138/M153	<b>CFL250CA</b>	<b>CFP250CA</b>
	400	S51	M135/M155	<b>CFL400CA</b>	<b>CFP400CA</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 Add voltage suffix to end of the part number. See chart voltage suffix availability by fixture type.

Lamp Type	Lamp Watts	Voltage Suffixes												
		MT	5MT	480	226	236	TT	CN	GP	XC	XQ	XK	XR	AM
HPS	150	X		X	X	X	X	X	X	—	—	—	—	—
	250	X	X	X	—	X	—	—	—	X	—	—	—	
	400	X	X	X	—	—	X	X	—	X	X	X	X	
PSMH	175	X	—	X	—	—	—	—	—	—	—	—	X	
	250	X	X	X	—	—	X	—	—	—	X	—	—	
	400	X	X	X	—	—	X	—	—	—	X	—	—	

**Voltages:**

**MT** - 120/208/240/277 V 60 HZ

**5MT** - 120/208/240/277/480 V 60 HZ

**480** - 480 V, 60 HZ

**226** - 220 V 60 HZ

**236** - 230V 60 HZ

**TT** - 120/277/347 V 60 HZ

**CN** - 240/480 V 60 HZ

**GP** - 120/220 V 50 HZ

**XC** - 230 V 50 HZ

**XQ** - 120/230 V 50 HZ

**XK** - 220/240 V 50 HZ

**XR** - 380/415 V 50 HZ

**AM** - 127/220 V 60 HZ

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 Class II, Division 1, Groups E, F, G  
 Class II, Division 2, Groups F, G  
 Class III  
 CSA 4X

APPLETON™

HID/FLOODLIGHT: NEC/CEC EXPLOSIONPROOF

	Lamp Watts	ANSI Lamp Type			Catalog Number ①③		
		HPS	PSMH	MH	HPS	PSMH	MH
<b>Fixture Unit</b>							
Furnished with Trunion 3/4" hub. (3/4 – 14 NPT)							
	150	S55	M102	—	<b>CFL150</b>	—	—
	175	—	M137/M152	M57/H39	—	<b>CFP175</b>	<b>CFH175</b>
	250	S50	M138/M153	M58/H37	<b>CFL250</b>	<b>CFP250</b>	<b>CFH250</b>
	400	S51	M135/M155	M59/H33	<b>CFL400</b>	<b>CFP400</b>	<b>CFH400</b>

### 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	—	<b>CFL150JB</b>	—	—
175	—	M137/M152	M57/H39	—	<b>CFP175JB</b>	<b>CFH175JB</b>
250	S50	M138/M153	M58/H37	<b>CFL250JB</b>	<b>CFP250JB</b>	<b>CFH250JB</b>
400	S51	M135/M155	M59/H33	<b>CFL400JB</b>	<b>CFP400JB</b>	<b>CFH400JB</b>

### 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	—	<b>CFL150SF</b>	—	—
175	—	M137/M152	M57/H39	—	<b>CFP175SF</b>	<b>CFH175SF</b>
250	S50	M138/M153	M58/H37	<b>CFL250SF</b>	<b>CFP250SF</b>	<b>CFH250SF</b>
400	S51	M135/M155	M59/H33	<b>CFL400SF</b>	<b>CFP400SF</b>	<b>CFH400SF</b>

### 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	—	<b>CFL150CA</b>	—	—
175	—	M137/M152	M57/H39	—	<b>CFP175CA</b>	<b>CFH175CA</b>
250	S50	M138/M153	M58/H37	<b>CFL250CA</b>	<b>CFP250CA</b>	<b>CFH250CA</b>
400	S51	M135/M155	M59/H33	<b>CFL400CA</b>	<b>CFP400CA</b>	<b>CFH400CA</b>

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

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

③ Add voltage suffix to end of the part number. See chart voltage suffix availability by fixture type.

Lamp Type	Lamp Watts	MT	TT	C2	Voltage Suffixes			
					C3	C6	C7	XP
HPS	150	X	X	X	X	X	X	X
	250	X	X	X	X	X	X	X
	400	X	X	X	X	X	X	X
MH	175	X	X	X	X	X	X	X
	250	X	X	X	X	X	X	X
	400	X	X	X	X	X	X	X
PSMH	175	X	X	—	—	—	—	—
	250	X	X	—	—	—	—	—
	400	X	X	—	—	—	—	—

Voltages:

MT - 120-208 V 60 HZ

TT - 120/277/347 V 60 HZ

C2 - 208V 60 HZ

C3 - 240 V 60 HZ

C6 - 480 V 60 HZ

C7 - 600 V 60 HZ

XP - 120, 220-240 V 50 HZ