

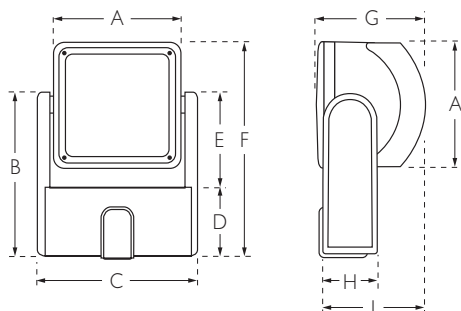
# EFX Series

## EFX Floodlight, 150-1000W HID

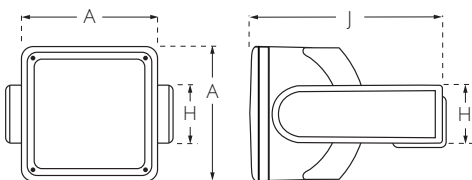
Type:	Job:	Approvals:
Catalog Number:		
Series/Source-Wattage		Date: Page 1 of 8
Optics (Reflector)	Voltage	
Mounting	Options (Factory Installed)	
Finish	Accessories (Field Installed)	

### Overall Dimensions *For Reference Only*

#### EFX VM Vertical Mount



#### EFX HM Horizontal Mount



#### 13" housing (70-400W)

A 13.3" (33.78cm)	B 16.8" (42.67cm)	C 16.2" (41.15cm)	D 7.0" (17.78cm)	E 9.8" (24.89cm)
F 22.2" (56.39cm)	G 11.3" (28.70cm)	H 6.3" (16.00cm)	I 10.9" (27.69cm)	J 19.1" (48.51cm)

#### 19" housing (450-1000W)

A 19.4" (49.28cm)	B 20.9" (53.09cm)	C 22.5" (57.15cm)	D 8.2" (20.83cm)	E 12.7" (32.26cm)
F 29.2" (74.17cm)	G 14.9" (37.85cm)	H 7.9" (20.07cm)	I 14.1" (35.81cm)	J 24.4" (61.98cm)

EPA = Effective Projected Area in Ft<sup>2</sup> Single standard unit

Vertical Mount		Horizontal Mount	
13" housing (70-400W)	2.7	13" housing (70-400W)	1.6
19" housing (450-1000W)	5.1	19" housing (450-1000W)	3.3

#### Weight (maximum)

(13" housing)	(19" housing)
55 lbs. (24.97 kgs)	75 lbs. (34.02 kgs)

### Specifications



#### Housing

Die-cast aluminum housing shall be of marine-grade alloy. All hardware shall be corrosion resistant. Dust-Tite housing shall be totally sealed from particulate entry. Housing shall not incorporate weep holes, wicks or any route for direct exchange with outside air. Lens assembly shall be accessible with a single tool. The EFX shall consist of a separate ballast housing and optical housing supported by common die-cast aluminum arms to form an integral but separate assembly ensuring longer life and cooler operation. Standard unit constructed to IP65. MEFX Series, with Marine Listing, constructed to IP66.

#### Door Frame And Lens Assembly

Door frame shall be one piece die-cast aluminum secured by four captive stainless steel screws, and shall be retained by hinge for easy lamp access. Mechanical stops shall ensure proper compression of memory retentive gasket. Lens shall be 7/32" clear tempered glass to withstand thermal and physical shock. Cored holes in door frame shall allow means of attachment for glare shield, auxiliary polycarbonate lens, barn doors, auxiliary lens frame and wireguard assembly.

#### Optical Module

Reflectors shall be made of high purity anodized aluminum. Multi-faceted segmented reflectors shall have minimum reflectivity of 94% and shall be made of "Super Sheet" with inorganic dielectric coating. Quick disconnect optical assembly shall be field-rotatable and exchangeable.

#### Socket

All sockets shall be porcelain, grip-type, mogul base, 4KV (5KV for 1000W HPS) pulse-rated for 70 through 1000 watts.

#### Ballast

Ballast shall be high power factor with reliable starting down to -29°C (-20°F) for MH, -34°C (-30°F) for Pulse Start MH, and -40°C (-40°F) for HPS. Ballast has Class H 180°C (356°F) rated insulation. Crest factor does not exceed 1.8. Ballast assembly for EFX shall be unitized on heavy-duty mounting tray with quick disconnect plug to optical chamber, and terminal block for field connections. Encapsulated polyblock option may be specified to ensure quiet operation and maximum heat dissipation.

#### Mounting

Standard mounting for the EFX shall be provided in the ballast housing by means of a concealed, field-rotatable mastfitter; allowing different mounting profiles. Internal mastfitter shall be designed to fit either vertical or horizontal 2-3/8" O.D. tenon.

#### Finish

Standard finish shall be Textured Black UltraClad polyester powder coating, 2.5 mil nominal thickness, electrostatically applied and oven cured. All components shall be thoroughly cleaned by a 5 stage pre-treatment process including iron phosphate bath and non-chromic acid etching stages, ensuring optimum performance characteristics. Other colors may be specified. Optional Marine Grade finish available.

#### Listings

ETL/cETL Listed luminaire to the UL 1598 standards, suitable for Wet Locations. UL 1598A Marine Listing available. The quality systems of this facility have been registered by UL to the ISO 9000 Series standards.

#### Warranty

Philips Gardco luminaires feature a 5 year limited warranty. See Warranty Information for complete details and exclusions. Polycarbonate lenses carry a 1 year warranty only.



Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contain Mercury" and/or with the symbol "Hg". Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycle and disposal can be found at [www.lamprecycle.org](http://www.lamprecycle.org).

# EFX Series

## EFX Floodlight, 150-1000W HID

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Vertical Mount



Horizontal Mount

Series/Source-Wattage	Optics (Reflector)	Voltage	Mounting
<input type="checkbox"/> <b>M</b> UL 1598A Marine Listing "M" prefix along with series designates UL 1598A Marine Listed option which includes additional Marine Grade gasketing. Unit is specially constructed with low copper content alloy (less than 0.4%) for corrosion control in harsh coastal and industrial environments or wherever marine type units are required. Meets U.S. Coast Guard specifications for marine type applications.	<input type="checkbox"/> <b>A</b> Wide <input type="checkbox"/> <b>B</b> Rectangular <input type="checkbox"/> <b>C</b> Narrow by Wide <input type="checkbox"/> <b>D</b> <sup>3</sup> Square <input type="checkbox"/> <b>E</b> <sup>3</sup> Spot <input type="checkbox"/> <b>AV</b> Wide rotated 90° <input type="checkbox"/> <b>BV</b> Rectangular rotated 90° <input type="checkbox"/> <b>CV</b> Narrow by Wide rotated 90°	<input type="checkbox"/> <b>120</b> <input type="checkbox"/> <b>208</b> <input type="checkbox"/> <b>240</b> <input type="checkbox"/> <b>277</b> <input type="checkbox"/> <b>480</b> <input type="checkbox"/> <b>QV</b> <sup>4</sup>	<input type="checkbox"/> <b>VM</b> <sup>5</sup> Vertical mount <input type="checkbox"/> <b>HM</b> <sup>5</sup> Horizontal mount <input type="checkbox"/> <b>LB-MA2</b> optional Less Ballast with integral mostfilter (not available with marine listed, MEFX series) <input type="checkbox"/> <b>LB-Y</b> optional Less Ballast with integral mostfilter (not available with marine listed, MEFX series)
Metal Halide <input type="checkbox"/> <b>EFXM-1000</b>	Pulse Start Metal Halide <sup>1</sup> <input type="checkbox"/> <b>EFXP-150</b> <sup>2</sup> <input type="checkbox"/> <b>EFXP-175</b> <sup>1,2</sup> <input type="checkbox"/> <b>EFXP-250</b> <input type="checkbox"/> <b>EFXP-350</b> <input type="checkbox"/> <b>EFXP-400</b> <input type="checkbox"/> <b>EFXP-450</b> <sup>1</sup> <input type="checkbox"/> <b>EFXP-750</b> <sup>1</sup> <input type="checkbox"/> <b>EFXP-1000</b>	High Pressure Sodium <input type="checkbox"/> <b>EFXS-150</b> <sup>2</sup> <input type="checkbox"/> <b>EFXS-250</b> <input type="checkbox"/> <b>EFXS-400</b> <input type="checkbox"/> <b>EFXS-750</b> <input type="checkbox"/> <b>EFXS-1000</b>	



1) 175W, 450W and 750W PSMH available in vertical burn lamp only at time of publication. Note: Consider intended aiming requirements when specifying Pulse Start units.

2) Requires mogul base lamp.

3) Not available in 13" housing with 250-400W HPS.

4) Allows field selection of 120/208/240/277 voltage. (No 480V). Certain options may require voltage selection as well.

5) Concealed field-rotatable mastfilter allows vertical or horizontal mounting to 2-3/8" O.D. tenon.

Options	Finish	Accessories (Ordered Separately)	
<input type="checkbox"/> <b>CSR</b> Hot Quartz Restrike <input type="checkbox"/> <b>LQ</b> Hot / Cold Quartz Restrike <input type="checkbox"/> <b>LQ1</b> Separately Wired (120V) Hot/Cold Quartz Restrike <input type="checkbox"/> <b>F1</b> Single Fuse, 120/277V <input type="checkbox"/> <b>F2</b> Double Fuse, 208/240/480V <input type="checkbox"/> <b>BL</b> Bi-Level <input type="checkbox"/> <b>TL</b> Tri-Level <input type="checkbox"/> <b>SLS</b> Stabilux Lamp Support (not available for 150W HPS (D and E reflectors)) <input type="checkbox"/> <b>PB</b> Encapsulated Polyblock <input type="checkbox"/> <b>50HZ</b> 50 Hz ballast <input type="checkbox"/> <b>PCB120V</b> 120V Photocell Button <input type="checkbox"/> <b>PCB208V</b> 208V Photocell Button <input type="checkbox"/> <b>PCB240V</b> 240V Photocell Button <input type="checkbox"/> <b>PCB277V</b> 277V Photocell Button <input type="checkbox"/> <b>GSL</b> Glass Sag Lens	<input type="checkbox"/> <b>BLP</b> Black Paint <input type="checkbox"/> <b>BRP</b> Bronze Paint <input type="checkbox"/> <b>NP</b> Natural Paint <input type="checkbox"/> <b>TSA</b> Textured Satin Aluminum <input type="checkbox"/> <b>WP</b> White Paint <input type="checkbox"/> <b>VP</b> Verde Paint <input type="checkbox"/> <b>OC</b> Optional Color (specify RAL color) <input type="checkbox"/> <b>SC</b> Special Color Paint (specify, must supply color chip) <input type="checkbox"/> <b>M(F)</b> Marine Grade finish (specify finish)	<input type="checkbox"/> <b>F1-KIT</b> Single Fuse Kit (120/277V) <input type="checkbox"/> <b>F2-KIT</b> Double Fuse Kit (208/240/480V) <input type="checkbox"/> <b>AL-40-EFX</b> Clear Poly Auxiliary Lens (13" housing) <input type="checkbox"/> <b>AL-10-EFX</b> Clear Poly Auxiliary Lens (19" housing) <input type="checkbox"/> <b>AL-40-EFX-(COLOR)</b> Colored Poly Auxiliary Lens (13" housing, specify color) <input type="checkbox"/> <b>AL-10-EFX-(COLOR)</b> Colored Poly Auxiliary Lens (19" housing, specify color) <input type="checkbox"/> <b>ALF-40-EFX</b> Auxiliary Lens Frame (13" housing) <input type="checkbox"/> <b>ALF-10-EFX</b> Auxiliary Lens Frame (19" housing) <input type="checkbox"/> <b>ALF-40-EFX-(*)</b> Auxiliary Lens Frame with Colored Glass Lens (13" housing, specify color) <input type="checkbox"/> <b>ALF-10-EFX-(*)</b> Auxiliary Lens Frame with Colored Glass Lens (19" housing, specify color) <input type="checkbox"/> <b>SK-40-EFX-(F)</b> Glare Shield (13" housing, specify finish) <input type="checkbox"/> <b>SK-10-EFX-(F)</b> Glare Shield (19" housing, specify finish) <input type="checkbox"/> <b>WG-40-EFX</b> Wireguard (13" housing) <input type="checkbox"/> <b>WG-10-EFX</b> Wireguard (19" housing) <input type="checkbox"/> <b>EFX-HD-BD-40-(F)</b> Barn Doors (13" housing, specify finish) <input type="checkbox"/> <b>EFX-HD-BD-10-(F)</b> Barn Doors (19" housing, specify finish) <input type="checkbox"/> <b>IGL-40-EFX</b> Internal Louver (13" housing) <input type="checkbox"/> <b>IGL-10-EFX</b> Internal Louver (19" housing)	<input type="checkbox"/> <b>SMT-2-(F)</b> Surface Mounting Tenon, 2-3/8" O.D. with flat mounting plate (specify finish) <input type="checkbox"/> <b>JB-VMT-EFX-(F)</b> Surface Junction Box with SMT-2 surface mounting tenon (specify finish) <input type="checkbox"/> <b>PX-1</b> Cross Arm Bracket <input type="checkbox"/> <b>FB-1</b> Flat Base Mount <input type="checkbox"/> <b>SM-18-(F)</b> 18" Stanchion Mount Bracket (specify finish) <input type="checkbox"/> <b>CMC-EFX-(F)</b> Ceiling Mount Bracket (specify finish) <input type="checkbox"/> <b>WB-1</b> Wall Bracket <input type="checkbox"/> <b>WB-5</b> Wiring Box for WB-1 <input type="checkbox"/> <b>WMB-16.5-(F)</b> Wall Mounting Bracket (specify finish)

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# EFX Series

## EFX Floodlight, 150-1000W HID

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### Distribution Guide & Ballast Data <sup>1,5,6</sup>

Source Type <sup>(1)</sup>	Catalog Number	Housing Size	Lamp Envelope	.ies File Name	Ballast Type <sup>(4)</sup>	ANSI Code	Line Current 120 / 208 / 240 / 277/ 480	Line Watts
MH	EFXM-1000	19"	BT37	efxm100*.ies	CWA	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
PS	EFXP-150	13"	ED28	efxp15*.ies	HX-HPF	M102 / M142	3.7 / 2.1 / 1.8 / 1.6 / 1.0	185
	EFXP-175	13"	ED28	efxp17*.ies	CWA	M137 / M152	2.0 / 1.1 / 0.9 / 0.8 / 0.5	220
	EFXP-250	13"	ED28	efxp25*.ies	CWA	M58 / M37	2.8 / 1.6 / 1.4 / 1.1 / 0.7	297
	EFXP-350	13"	ED28	efxp35*.ies	CWA	M131	3.7 / 2.1 / 1.8 / 1.6 / 0.9	400
	EFXP-400	13"	ED28	efxp40*.ies	CWA	M135 / M155	4.4 / 2.2 / 1.9 / 1.8 / 1.0	456
	EFXP-450	19"	BT37	efxp45*.ies	CWA	M144	4.4 / 2.6 / 2.2 / 1.9 / 1.1	514
	EFXP-750	19"	BT37	efxp75*.ies	CWA	M149	7.0 / 4.0 / 3.5 / 3.0 / 1.7	820
	EFXP-1000	19"	BT37	efxp100*.ies	CWA	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
HPS	EFXS-150	13"	E231/2	efxs15*.ies	HX-HPF	S55	3.2 / 1.7 / 1.6 / 1.4 / 0.7	195
	EFXS-250	13"	E18	efxs25*.ies	CWA	S50	2.7 / 1.6 / 1.3 / 1.2 / 0.7	310
	EFXS-400	13"	E18	efxs40*.ies	CWA	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
	EFXS-750	19"	BT/ED37	efxs75*.ies	CWA	S111	6.8 / 4.0 / 3.5 / 3.1 / 1.8	840
	EFXS-1000	19"	ED37	efxs100*.ies	CWA	S52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100

1) The EFX Floodlight Series may accommodate other wattages and lamps.

2) MH = Metal Halide, PS = Pulse Start Metal Halide, HPS = High Pressure Sodium.  
Clear lamps recommended. Data reflects these recommendations.


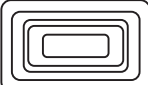



3) Replace (\*) with: A: (wide beam); B: (rectangular beam); C: (narrow-by-wide beam); D: (square beam); E: (spot); AV: (wide beam rotated 90°); BV: (rectangular beam rotated 90°); CV: (narrow-by-wide beam rotated 90°).

4) CWA = Constant Wattage Autotransformer; HX-HPF = High Reactance High Power Factor.

5) Due to variable distribution selection and specific application criteria, LER values and fixture efficiencies are not published. See NEMA Standard LE-5B.

6) Intended aiming and lamp burn orientation restrictions should be considered when selecting floodlight.

### Distribution Patterns and Beam Spreads

Reflector Type	Source	Wattage	Max Candle Power		H x V NEMA	10% Field Angle	50% Beam Angle
			MH	PSMH			
<b>A</b> Wide Beam 	MH/PSMH	175W	N/A	8,488	7 x 5	138° x 100°	N/A
		250W	N/A	9,985	7 x 5	138° x 100°	N/A
		400W	N/A	18,444	7 x 5	139° x 94°	N/A
		1000W	64,503	67,406	7 x 5	128° x 83°	24° x 54°
	HPS	150W	5,943		7 x 6	153° x 107°	N/A
		250W	11,501		7 x 6	138° x 103°	N/A
		400W	18,256		7 x 6	138° x 105°	N/A
		750W	58,754		7 x 5	136° x 93°	N/A
		1000W	69,945		7 x 5	128° x 90°	52° x 64°
<b>B</b> Rectangular Beam 	MH/PSMH	175W	N/A	13,028	5 x 6	80° x 104°	53° x 23°
		250W	N/A	18,836	5 x 6	80° x 104°	53° x 23°
		400W	N/A	30,286	5 x 5	85° x 96°	55° x 25°
		1000W	85,051	88,708	5 x 6	97° x 126°	65° x 21°
	HPS	150W	11,463		5 x 6	91° x 102°	53° x 26°
		250W	15,650		6 x 6	106° x 110°	72° x 30°
		400W	23,930		6 x 6	108° x 111°	74° x 30°
		750W	74,568		6 x 6	106° x 129°	70° x 24°
		1000W	88,771		6 x 6	106° x 129°	70° x 24°
<b>C</b> Narrow by Wide Beam 	MH/PSMH	175W	N/A	14,881	5 x 6	80° x 105°	69° x 18°
		250W	N/A	21,847	5 x 6	80° x 104°	69° x 17°
		400W	N/A	34,623	5 x 6	79° x 103°	68° x 17°
		1000W	104,913	109,364	6 x 4	117° x 63°	75° x 24°
	HPS	150W	10,032		5 x 6	99° x 105°	57° x 28°
		250W	33,660		5 x 4	85° x 49°	65° x 10°
		400W	52,936		5 x 6	89° x 101°	66° x 14°
		750W	104,747		6 x 5	111° x 74°	70° x 26°
		1000W	124,699		6 x 5	111° x 74°	70° x 26°
<b>D</b> Square Beam 	MH/PSMH	175W	N/A	12,216	5 x 5	81° x 81°	46° x 34°
		250W	N/A	17,678	5 x 5	81° x 81°	46° x 34°
		400W	N/A	23,294	5 x 5	89° x 83°	50° x 36°
		1000W	177,016	184,981	4 x 4	50° x 56°	23° x 28°
	HPS	150W	13,913		5 x 4	75° x 49°	40° x 28°
		250W	N/A		N/A	N/A	N/A
		400W	N/A		N/A	N/A	N/A
		750W	185,854		3 x 4	45° x 48°	22° x 24°
		1000W	221,255		3 x 4	45° x 48°	22° x 24°
<b>E</b> Spot 	MH/PSMH	175W	N/A	94,611	2 x 2	17° x 19°	11° x 11°
		250W	N/A	239,128	1 x 2	17° x 19°	5° x 6°
		400W	N/A	455,945	2 x 2	19° x 19°	11° x 11°
		1000W	951,500	994,318	2 x 2	23° x 24°	9° x 9°
	HPS	150W	156,380		1 x 1	15° x 13°	8° x 4°
		250W	N/A		N/A	N/A	N/A
		400W	N/A		N/A	N/A	N/A
		750W	419,751		2 x 2	28° x 29°	11° x 11°
		1000W	499,704		2 x 2	28° x 29°	11° x 11°

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# EFX Series

## EFX Floodlight, 150-1000W HID

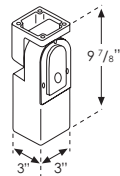
Type:	Job:	Page 4 of 8
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Optional Less Ballast mounting details (Specified on page 2) **Not available on MEFX units with UL 1598A Marine Listed option.**

### LB-MA2

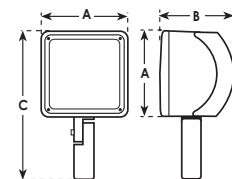
Less Ballast with Integral Mastfitter

(Specified as an optional mounting configuration on page 2)



Less Ballast construction with integral mastfitter for 2-3/8" O.D. pipe tenons. Die-cast mastfitter is adjustable through 180°.

Dimensions	A	B	C
13" housing	13.3" (33.8 cm)	11.3" (28.7 cm)	23.3" (59.2 cm)
19" housing	19.4" (49.3 cm)	14.9" (37.8 cm)	29.3" (74.4 cm)

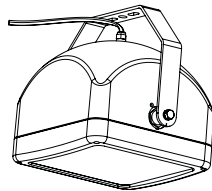


### LB-Y

Less Ballast Yoke Mount

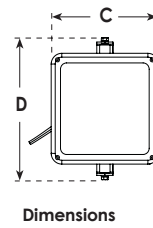
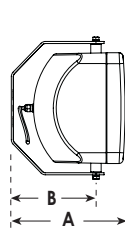
(Specified as an optional mounting configuration on page 2)

Allows mounting to any flat surface, providing 360° aiming capability.

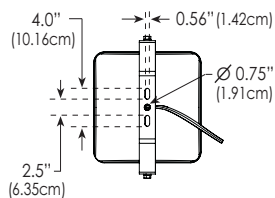


S.O. cord with optical lead allows quick electrical connections.

(Sag Lens recommended when aiming straight up.)



Dimensions	A	B	C	D
13" housing	14.05" (35.69cm)	10.50" (26.67cm)	13.31" (33.81cm)	16.99" (43.15cm)
19" housing	17.75" (45.09cm)	12.87" (32.69cm)	19.43" (49.35cm)	22.84" (58.01cm)



(Ballast is remote mounted)

## Option details (Factory Installed)

### Auxiliary / Emergency Lighting (150 watt quartz lamp)

#### CSR Hot Quartz Restrike using Current Sensing Relay (without time delay)



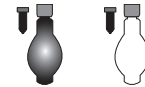
Extinguishes auxiliary quartz lamp when arc of the main HID lamp strikes.

**Activation:** At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down.

#### CSR Auxiliary Quartz Operation



**Normal Start:**  
Quartz lamp energized until main HID lamp strikes.



**HID Lamp Reaches Full Brightness:**  
Auxiliary quartz lamp automatically extinguished when main HID lamp strikes. (Takes approximately 3 minutes to reach approx. 40% brightness.)

#### LQ LiteMatic Hot / Cold Quartz Restrike



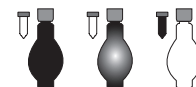
Provides LiteMatic quartz auxiliary operation for fixtures with 120V or multi-tap ballasts. 120V auxiliary LiteMatic quartz lamp power supplied by ballast (AC line voltage). Quartz lamp remains on for three minutes after main HID lamp strikes and reaches approximately 40% light output.

**Activation:** At (initial) Cold Start or Restrike (after a momentary "Brown Out" or extended "Black Out" power interruption), through Run Down, Restrike and Ramp Up.

#### LQ Auxiliary LiteMatic Quartz Operation

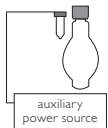


**Normal Start:**  
Quartz lamp energized at initial cold start or at restrike after a temporary power interruption.



**Quartz Lamp Remains on during Ramp Up:**  
Besides providing illumination while the main HID lamp reaches full brightness, the warmth provided by the quartz lamp helps to create a favorable restrike condition for the main HID lamp (useful in extreme cold temperatures).

#### LQ1 Separately Wired (120V) Hot / Cold Quartz Restrike



Externally controlled emergency lighting from a separate power source. Quartz lamp is extinguished once power is restored.

To ensure integrity of the emergency lighting system, LQ1 leads should be hardwired.

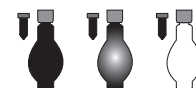
**Activation:** At "Black Out" conditions only. Normal HID operation will occur at all other times.

LQ1 requires an interlock (by others) to ensure HID and Quartz lamp are not operated concurrently.

#### LQ1 Emergency Quartz Operation



**At AC Power Interruption:**  
During AC line voltage power interruption, auxiliary quartz lamp is automatically energized by separately wired power source.

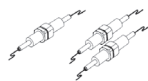


**Once Power is Restored, Quartz Lamp Automatically Extinguishes:**  
Used specifically for emergency lighting during "Black Out" periods, or times of extended power interruption. (Takes approximately 3 minutes for HID lamp to reach full brightness.)

#### F1 Single Fuse, 120/277V

#### F2 Double Fuse, 208/240/480V

Note: Standard unit consists of 1 or 2 KTK 30 amp fuses mounted internally on the ballast plate.  
Fusing not available on MEFX units (UL 1598A Marine Listed).  
If ordering QV ballast, voltage must be specified.



#### SLS Stabilux Lamp Support

Adjustable Stabilux Lamp support, insulated with woven ceramic fabric, for added protection from lamp breakage due to mechanical shock and vibration.

Note: Not available for 150W HPS (D and E reflectors).

#### Optional Sag Glass Lens

##### GSL

##### Glass Sag Lens

When floodlight is aimed straight up, the sag lens creates a self-cleaning feature.

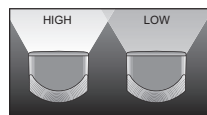


Recommended for installations requiring vertical aiming of floodlight (glass lens up).

#### BL Bi-Level (high / low dimming)

#### TL Tri-Level (high / mid / low dimming) (consult factory)

Note: Suitable for HPS in any aiming position. Consult factory when specifying dimming with Metal Halide.



#### PB Encapsulated Polyblock

Core and coil are encapsulated in solid polyester resin compound to minimize ballast noise and ensure cooler operation.

#### 50HZ 50 Hz Ballast operation (consult factory)


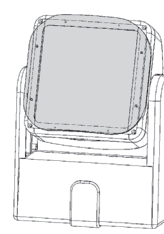
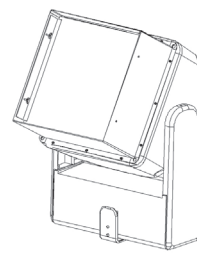
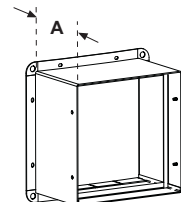
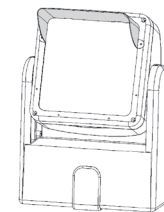
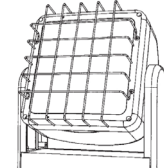
Specified for applications (outside the U.S.) where 50 Hz operation is standard.

# EFX Series

## EFX Floodlight, 150-1000W HID

Type:	Job:	Page 5 of 8
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### Accessory details (Field Installed - Shipped Separately)

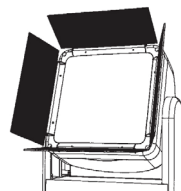
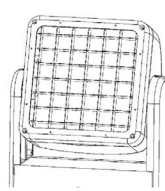
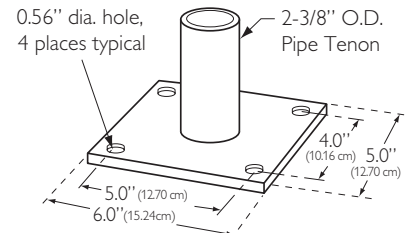
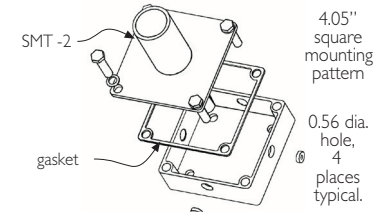
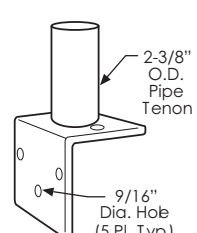
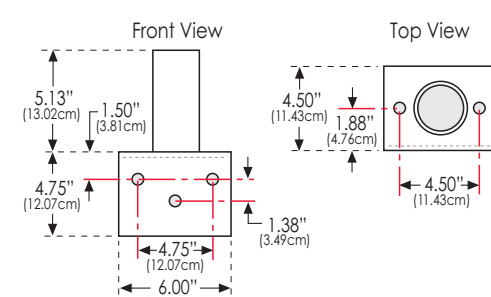
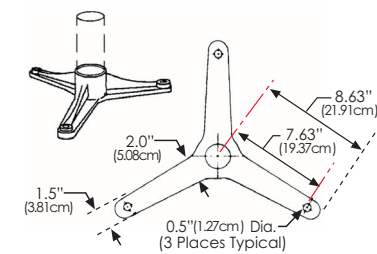
<b>F1-KIT</b>	Single Fuse, 120 / 277V	Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses.	
<b>F2-KIT</b>	Double Fuse, 208 / 240 / 480V		
<i>Note:</i> Fusing not available on MEFX units (with UL 1598A Marine Listed "M" option).			
<b>AL-40-EFX</b>	Clear Polycarbonate Auxiliary Lens for 13" housing	Provides additional protection of the glass lens.	
<b>AL-10-EFX</b>	Clear Polycarbonate Auxiliary Lens for 19" housing	Color coated polycarbonate lens available in a wide selection of colors, hues and shades.	
<b>AL-40-EFX-(COLOR)</b>	Colored Polycarbonate Auxiliary Lens for 13" housing	<i>Note: Efficiency of the luminaire is reduced significantly with the addition of a colored lens and varies with color saturation. Useful life is limited by UV discoloration from sunlight, mercury or metal halide lamps.</i>	
<b>AL-10-EFX-(COLOR)</b>	Colored Polycarbonate Auxiliary Lens for 19" housing	<i>Polycarbonate lenses carry a 1 year warranty.</i> <i>For assistance in color selection, consult factory.</i>	
<b>ALF-40-EFX</b>	Auxiliary Lens Frame for 13" housing	Auxiliary lens frame (without colored glass lens) may be used as a snoot.	
<b>ALF-10-EFX</b>	Auxiliary Lens Frame for 19" housing		
<b>ALF-40-EFX-(*)</b>	Auxiliary Lens Frame with Colored Glass Lens for 13" housing	Auxiliary colored glass lens will not fade, an advantage over colored polycarbonate lens. Consult factory.	
<b>ALF-10-EFX-(*)</b>	Auxiliary Lens Frame with Colored Glass Lens for 19" housing	<i>Note:</i> <i>Efficiency of the luminaire is reduced with the addition of a colored lens and varies with color saturation and reflector type.</i>	
<i>(*) Consult factory to specify lens color</i>			
<i>Note: D or E reflectors are recommended with this accessory.</i>			
<i>Note:</i> Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.			
<b>SK-40-EFX-(F)</b>	Glare Shield for 13" housing	Fixed cutoff shield for additional glare control. Shield may also be mounted on bottom or side of fixture.	
<b>SK-10-EFX-(F)</b>	Glare Shield for 19" housing		
F = Specify finish		<i>Recommended finish is TBK (Textured Black).</i>	
<i>Note:</i> Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.			
<b>WG-40-EFX</b>	Wireguard for 13" housing	Polished stainless steel wireguard.	
<b>WG-10-EFX</b>	Wireguard for 19" housing		
<i>Note:</i> Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.			

# EFX Series

## EFX Floodlight, 150-1000W HID

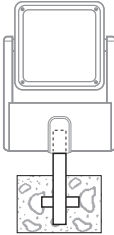
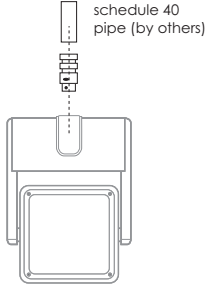
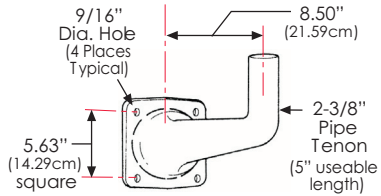
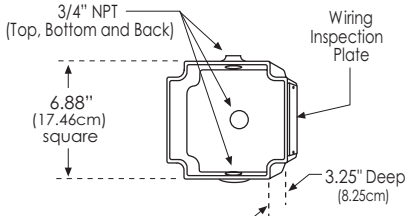
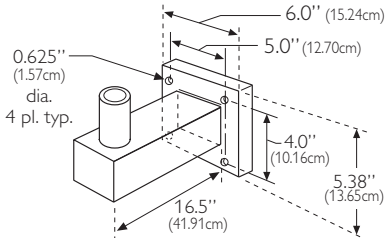
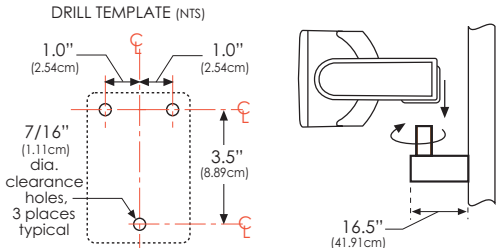
Type:	Job:	Page 6 of 8
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### Accessory details, *continued* (Field Installed - Shipped Separately)

<b>EFX-HD-BD-40-(F)</b> <b>EFX-HD-BD-10-(F)</b>	Barn Doors for 13" housing Barn Doors for 19" housing F = Specify finish	Field adjustable shields on all four sides of optical opening. Recommended finish is TBK (Textured Black).	
<b>IGL-40-EFX</b> <b>IGL-10-EFX</b>	Internal Louver for 13" housing Internal Louver for 19" housing	Field adjustable internal grid louver to shield the arc tube from view (112° horizontally and 122° vertically max). Black finish.	
<b>SMT-2-(F)</b>	Surface Mounting Tenon with flat mounting plate F = Specify finish	2-3/8" O.D. aluminum tenon welded to a flat aluminum plate with four 1/2" diameter mounting holes. Single floodlight may be pad mounted or wall mounted. Mounting hardware by others.	
<b>JB-VMT-EFX-(F)</b>	Junction box with gasket and SMT-2 F = Specify finish	For mounting to flat surfaces when using surface mount conduit. Box has four 1/2" pipe entrances. Mounting hardware by others.	
<b>PX-1</b>	Cross-arm Bracket For installing floodlights on wooden or steel cross-arms. Cast aluminum angle bracket with 2" pipe stub. "L" base.		
<b>FB-1</b>	Flat Base Mount	Cast aluminum mounting bracket for installing floodlights on flat horizontal surfaces. For use with 2-3/8" O.D. pipe tenon (by others). Limit tenon height to 8.0" (20.32cm).	

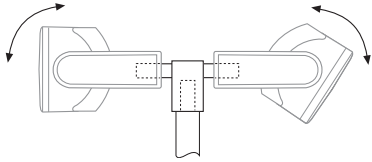
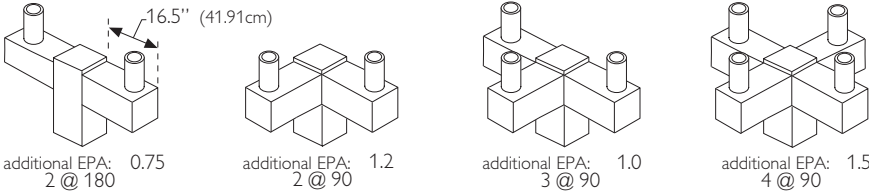
# EFX Series

## EFX Floodlight, 150-1000W HID

Type:	Job:		Page 7 of 8
<b>SM-18-(F)</b>	Stanchion Mount Bracket F = Specify finish	<p>Stanchion mounting allows stable positioning of vertical tenon member in aggregate or substrate.</p> <p>2-3/8" O.D. aluminum tenon welded to a 2-7/8" stanchion.</p> <p>Standard length: 18"</p>	
<b>CMC-EFX-(F)</b>	Ceiling Mount Bracket F = Specify finish	<p><b>For indoor applications only.</b></p> <p>Permits installation of luminaires to ceilings.</p> <p>A schedule 40 pipe, 2-3/8" O.D. (by others), must be properly secured to structure.</p>	
<b>WB-1</b>	Wall Bracket	<p>Cast aluminum wall bracket for vertical surfaces only. Designed to permit mounting of floodlights on flat vertical surfaces.</p> <p>Use in conjunction with WB-5 for surface mounted wiring.</p>	
<b>WB-5</b>	Wiring Box for WB-1 and surface mounted conduit feed	<p>Used in conjunction with WB-1 for surface mounted wiring.</p> <p>Tapped top, back and bottom for 3/4" conduit or pipe.</p> <p>Gasket provided for sealing surface wiring box to WB-1 (wall mounting bracket).</p>	
<b>WMB-16.5-(F)</b>	Wall Mounting Bracket F = Specify finish Suitable for mounting single unit only.	<p>2-3/8" O.D. vertical tenon welded to extruded aluminum arm with removeable end cap for wiring.</p> <p>Arm is bolted to a cast aluminum plate that has four 5/8" diameter mounting holes.</p> <p>Mounting hardware by others.</p>	
<b>MPA-16.5-(F)</b>	Mid Pole Adapter F = Specify finish	<p>Extruded aluminum arm with 2-3/8" O.D. tenon with removeable end cap for wiring permits installation of a floodlight to straight square poles and allows horizontal aiming.</p> <p>Mounting hardware provided.</p> <p>Requires hand hold in pole opposite mounting bracket.</p>	

EFX Series

EFX Floodlight, 150-1000W HID

Type:	Job:	Page 8 of 8	
PTA-H2180-11.0-(F)	Pole Top Adapter with horizontal tenons  F = Specify finish	2-3/8" O.D. horizontally mounted tenons welded to a cast aluminum pole top adapter for mounting to pole with 2-3/8" O.D. x 4" vertical tenon.  <i>(To prevent possibility of rotation, one set screw must be removed from the mastfitter after the assembly is attached to the tenon, then the hole position must be partially drilled to allow set screw point to penetrate the tenon wall.)</i>	
PTA-2180-16.5-(F)	Pole Top Adapter, 2@180°	Permits installation of luminaires equipped with mastfitter (MA2) in any of the configurations shown. Fits poles having a 2-3/8" OD x 4" vertical tenon.	
PTA-2090-16.5-(F)	Pole Top Adapter, 2@90°	 additional EPA: 0.75 2 @ 180 additional EPA: 1.2 2 @ 90 additional EPA: 1.0 3 @ 90 additional EPA: 1.5 4 @ 90	
PTA-3090-16.5-(F)	Pole Top Adapter, 3@90°		
PTA-4090-16.5-(F)	Pole Top Adapter, 4@90°		
	F = Specify finish	Permits full horizontal adjustment of smaller units (13" housing); larger units (19" housing) have limited adjustment.  Vertically mounted 2-3/8" O.D. tenons welded to extruded aluminum arms with removeable end cap for wiring. Arms bolted to cast aluminum pole top bracket.  Components shipped separately. Field assembly required.	

Notes



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