

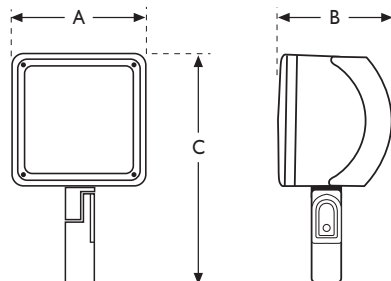
# EFI Series

EFX Floodlight with integral ballast, 70-1000W HID / 85-165W QL available

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

## Overall Dimensions *For Reference Only*

### EFI Mastfitter Mount (MA2) (standard)

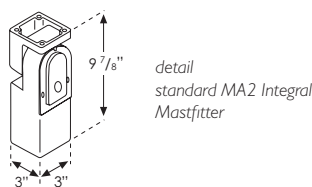


#### 70-400W HID unit: 13" Housing

A	B	C
13.3"	11.3"	23.3"
(33.78cm)	(28.70cm)	(59.18cm)

#### 750-1000W HID and 85-165W QL unit: 19" Housing

A	B	C
19.4"	14.9"	29.3"
(49.28cm)	(37.85cm)	(74.42cm)



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

Single standard unit - horizontal mount

70W - 400W	13" housing	1.6
750W - 1000W	19" housing	3.5

#### Weight (maximum)

(13" housing)	(19" housing)
43 lbs. (19.50 kgs)	70 lbs. (31.75 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. Capable of 195° vertical aiming with MA2 mastfitter (standard). Optional Yoke mounting provides 360° aiming. QL unit is available in 19" housing only. Optical housing constructed to IP65.

### 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 allows means of attachment for glare shield, auxiliary polycarbonate lens, barn doors, auxiliary lens frame and wireguard assembly.

### Optical Module

HID optical reflector assembly shall be field rotatable and exchangeable. Two beam patterns are available for 250-1000W HID units. Five beam patterns are available for HID units 70-200W units. A cut-off optical assembly, which meets IES cutoff criteria, is available for 70-400W HID units. HID unit's multi-faceted, segmented reflectors utilizes a minimum 85% reflectivity anodized lighting sheet. QL unit uses 94% minimum reflectivity sheet. QL unit available with DQL beam pattern only.

### Socket

HID Units: Sockets are porcelain, grip-type mogul base, 4KV rated (5KV rated for 1000W HPS); 70-175W units have medium base sockets.

QL Units: Lamp and lamp holder are pre-assembled and are integral in QL induction lamp units.

### Ballast

HID Units: Ballast shall be factory installed and wired with leads extending into the MA2 mastfitter for field connection within the wiring compartment. Ballast is high power factor with reliable starting to -29°C (-20°F) for Metal Halide, -34°C (-30°F) for Pulse Start Metal Halide, and -40°C (-40°F) for HPS. Class H, 180°C (356°F) rated insulation. Crest factor does not exceed 1.8.

QL Units: Ballast shall be electronic, high frequency, high power factor with reliable starting to -40°C (-40°F), with THD of <10%. Lamp/generator combination in QL unit has a 100,000 hour rated lamp life.

### Mounting

A heavy duty, die-cast aluminum integral mastfitter (MA2) is standard, with wiring compartment and gasketed cover for 2-3/8" O.D. x 4" tall vertical tenon. Vertical aiming adjustment is achieved by loosening one stainless steel mounting bolt. Adjustment may be made up 95° or down 100° when mounted on extended 2-3/8" O.D. tenons. Yoke mounting bracket allows mounting to any flat surface and includes a prewired SO cord.

### 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.

### Listings

ETL/cETL Listed luminaire to the UL 1598 standards, suitable for Wet Locations and for above horizontal aiming. 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).

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Series/Source-Wattage	Optics (Reflector)	Voltage	Mounting
<b>Metal Halide</b> <input type="checkbox"/> <b>EFIM-1000</b> <b>Pulse Start Metal Halide <sup>(1)</sup></b> <input type="checkbox"/> <b>EFIP-70</b> <input type="checkbox"/> <b>EFIP-100</b> <input type="checkbox"/> <b>EFIP-150</b> <input type="checkbox"/> <b>EFIP-250</b> <input type="checkbox"/> <b>EFIP-400</b> <input type="checkbox"/> <b>EFIP-1000</b>	<input type="checkbox"/> <b>W</b> Wide Beam  <input type="checkbox"/> <b>CO</b> Cutoff <i>CO reflector is not available in 70-400W yoke mount HID units.</i>  <input type="checkbox"/> <b>HF</b> Horizontal Flood <sup>(3)</sup>  <input type="checkbox"/> <b>VF</b> Vertical Flood <sup>(3)</sup>  <input type="checkbox"/> <b>SP</b> Spot <sup>(3)</sup>  <input type="checkbox"/> <b>DQL</b> Medium Flood <sup>(4)</sup>	<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> <sup>(5)</sup>  <input type="checkbox"/> <b>QV</b> <sup>(6)</sup>	<input type="checkbox"/> <b>MA2</b> Mastfitter <sup>(7)</sup>  <input type="checkbox"/> <b>Y</b> Yoke Mount <sup>(8)</sup>
<b>High Pressure Sodium</b> <input type="checkbox"/> <b>EFIS-70</b> <input type="checkbox"/> <b>EFIS-100</b> <input type="checkbox"/> <b>EFIS-150</b> <input type="checkbox"/> <b>EFIS-250</b> <input type="checkbox"/> <b>EFIS-400</b> <input type="checkbox"/> <b>EFIS-750</b> <input type="checkbox"/> <b>EFIS-1000</b>  <b>QL Induction <sup>(2,4,5)</sup></b> <input type="checkbox"/> <b>EFIQL-85</b> <input type="checkbox"/> <b>EFIQL-165</b>			

- 1) Consider the position orientation limitations of Pulse Start lamps and intended aiming requirements when specifying Pulse Start units. Consult factory.  
2) Ambient temperature restrictions apply at certain voltages. Consult factory.

- 3) HF, VF, and SP reflectors available in 175W and below only.  
4) QL unit is only available with DQL reflector and 19" housing.  
5) QL Induction not available in 480V only.

- 6) For HID units only. Allows field selection of 120/208/240/277 voltage. (No 480V). Some options require voltage selection.  
7) (Standard) Integral mastfitter fits 2-3/8" O.D. vertical tenon.  
8) For details, see page 4.

Options	Finish	Accessories (Ordered Separately)	
<input type="checkbox"/> <b>BL</b> Bi-Level <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>GSL</b> Glass Sag Lens <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>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>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>WG-40-EFX</b> Wireguard (13" housing) <input type="checkbox"/> <b>WG-10-EFX</b> Wireguard (19" housing) <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>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>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) <input type="checkbox"/> <b>MPA-16.5-(F)</b> Mid Pole Adapter (specify finish) <input type="checkbox"/> <b>PTA-H2180-11.0-(F)</b> Pole Top Adapter, Two Lights, Horizontal Tenon (specify finish) <input type="checkbox"/> <b>PTA-2180-16.5-(F)</b> Pole Top Adapter, 2@180 (specify finish) <input type="checkbox"/> <b>PTA-2090-16.5-(F)</b> Pole Top Adapter, 2@90 (specify finish) <input type="checkbox"/> <b>PTA-3090-16.5-(F)</b> Pole Top Adapter, 3@90 (specify finish) <input type="checkbox"/> <b>PTA-4090-16.5-(F)</b> Pole Top Adapter, 4@90 (specify finish)

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

Source Type <sup>(2)</sup>	Catalog Number	Housing Size	Lamp Envelope	.ies <sup>(3)</sup> File Name	Ballast Type <sup>(4)</sup>	ANSI Code	Line Current 120 / 208 / 240 / 277 / 480	Line Watts
<b>MH</b>	<b>EFIM-1000</b>	19"	BT37	efim100*.ies	CWA	M47 / H36	9.2 / 5.6 / 4.7 / 4.1 / 2.4	1080
<b>PS</b>	<b>EFIP-70</b>	13"	ED17	efip70*.ies	HX-HPF	M98 / M143	1.9 / 1.0 / 0.9 / 0.8 / 0.5	95
	<b>EFIP-100</b>	13"	ED17	efip10*.ies	HX-HPF	M90 / M140	2.8 / 1.4 / 1.4 / 1.6 / 1.0	185
	<b>EFIP-150</b>	13"	ED17	efip15*.ies	HX-HPF	M102 / M142	3.7 / 2.1 / 1.8 / 1.6 / 1.0	185
	<b>EFIP-250</b>	13"	E/ED28	efip25*.ies	CWA	M138 / M153	2.8 / 1.5 / 1.3 / 1.2 / 0.6	298
	<b>EFIP-400</b>	13"	ED28	efip40*.ies	CWA	M135 / M155	4.4 / 2.2 / 1.9 / 1.8 / 1.0	456
	<b>EFIP-1000</b>	19"	BT37	efip100*.ies	CWA	M141	9.0 / 5.2 / 4.5 / 3.9 / 2.4	1080
<b>HPS</b>	<b>EFIS-70</b>	13"	ED17	efis70*.ies	HX-HPF	S62	1.7 / 1.0 / 0.9 / 0.8 / 0.4	94
	<b>EFIS-100</b>	13"	ED17	efis10*.ies	HX-HPF	S54	2.3 / 1.3 / 1.1 / 1.0 / 0.6	135
	<b>EFIS-150</b>	13"	ED17	efis15*.ies	HX-HPF	S55	3.2 / 1.7 / 1.6 / 1.4 / 0.7	195
	<b>EFIS-250</b>	13"	E18	efis25*.ies	CWA	S50	2.7 / 1.6 / 1.3 / 1.2 / 0.7	310
	<b>EFIS-400</b>	13"	E18	efis40*.ies	CWA	S51	4.1 / 2.5 / 2.1 / 1.9 / 1.1	467
	<b>EFIS-750</b>	19"	BT/ED37	efis75*.ies	CWA	S111	6.8 / 4.0 / 3.5 / 3.1 / 1.8	840
	<b>EFIS-1000</b>	19"	ED37	efis100*.ies	CWA	S52	9.5 / 5.5 / 4.8 / 4.2 / 2.5	1100
Source Type <sup>(6)</sup>	Catalog Number	Housing Size	Min. Starting	Max Ambient	Lamp Life in Hrs	.ies File Name	Line Current 120 / 208 / 240 / 277	Line Watts
<b>QL</b>	<b>EFIQL-85</b>	19"	-40°C (-40°F)	40°C (104°F)	100,000	efiql85d.ies	0.9 / 0.5 / 0.4 / 0.3	85
<b>QL</b>	<b>EFIQL-165</b>	19"	-40°C (-40°F)	40°C (104°F)	100,000	efiql165d.ies	NA / 0.8 / 0.7 / 0.6	165

1) Accommodates other wattages. Consult factory.

2) MH = Metal Halide, PS = Pulse Start Metal Halide, HPS = High Pressure Sodium, QL = QL Induction, HID units: clear lamps. QL units: coated lamps.

3) CO reflector not available in 70-400W yoke mount units.







Replace (\*) with reflector designation: W, CO, HF, VF, or SP.

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

5) Note intended aiming / lamp orientation restrictions.

6) Important: Ambient temperature guidelines must be followed. Operation in excess of Maximum Ambient temperatures will void luminaire warranty. Lamp life is based on 50% mortality rate at 10 hour starts. Ambient temperature restrictions apply at certain voltages. Consult factory.

## Distribution Patterns and Beam Spreads

Reflector Type	Source	Wattage	Max Candle Power	H x V NEMA	10% Field Angle	50% Beam Angle
<b>W</b> Wide Beam 	MH/PS	70W-400W	8,643	7 x 6	152° x 129°	130° x 57°
		1000W	26,425	7 x 7	155° x 153°	133° x 95°
	HPS	70W-400W	1,722	7 x 6	150° x 129°	130° x 48°
<b>CO</b> Cutoff  Not available in 70-400W yoke mount HID units.	MH/PS	70W-400W	15,811	6 x 6	120° x 127°	85° x 60°
		1000W	54,117	6 x 6	130° x 116°	76° x 51°
	HPS	70W-400W	2,752	6 x 6	124° x 128°	79° x 55°
<b>HF</b> Horizontal Flood 	MH/PS	70W-150W	3,395	7 x 6	159° x 128°	137° x 60°
		70W-150W	3,885	7 x 6	158° x 126°	138° x 60°
	HPS	70W-150W	3,885	7 x 6	158° x 126°	138° x 60°
<b>VF</b> Vertical Flood 	MH/PS	70W-150W	4,799	7 x 6	135° x 113°	76° x 76°
		70W-150W	6,245	6 x 6	127° x 107°	73° x 79°
	HPS	70W-150W	6,245	6 x 6	127° x 107°	73° x 79°
<b>SP</b> Spot 	MH/PS	70W-150W	148,284	1 x 1	13° x 14°	3° x 4°
		70W-150W	139,170	2 x 2	19° x 18°	10° x 10°
	HPS	70W-150W	139,170	2 x 2	19° x 18°	10° x 10°
<b>DQL</b> Round 	QL	85W-165W	11,649	5 x 5	81° x 81°	46° x 45°

Available in 19" housing only. Ambient temperature restrictions apply at certain voltages.

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Specifications are subject to change without notice.

[www.philips.com/luminaires](http://www.philips.com/luminaires)

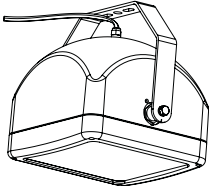
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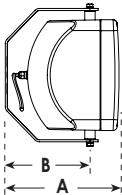
Yoke mounting details (Specified on page 2)

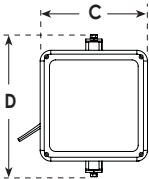
Allows mounting to any flat surface, providing 360° aiming capability.



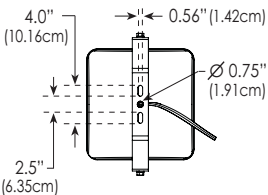
S.O. cord with optical lead allows quick electrical connections.

(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)



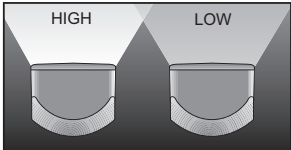
Option details (Factory Installed)

**BL** = Bi-Level

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

Bi-Level provides high / low level of lamp output with up to 50% power consumption.

Zero crossover network avoids strobing and lamp dropout.



**CSR** = Hot Quartz Restrike

**LQ** = Hot/Cold Quartz Restrike

**LQ1** = Separately Wired (120V) Quartz Restrike

*Note: Standard 150 watt (120V) double contact bayonet base socket.*

*Combined Quartz wattage may not exceed HID lamp wattage.*

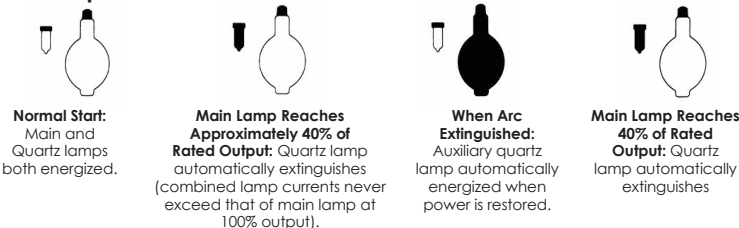
*LQ1 requires an Interlock (by others) to ensure HID and Quartz source are not operated concurrently.*

CSR - Quartz restrike using a current sensing relay; extinguishes auxiliary lamp when main arc strikes.

LQ - Provides LiteMatic operation for fixtures with 120V or multi-tap ballasts.

LQ1 - Separately wired, externally controlled emergency lighting from a separate power source.

**LiteMatic Operation**




**F1** = Single Fuse (120V/277V)

**F2** = Double Fuse (208V/240V/480V)


*Note: If ordering QV ballast or QL unit, voltage must be specified.*

Standard unit consists of 1 or 2 KTK 30 amp fuses mounted internally on the ballast plate.



**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).



**50 HZ** = 50 Hz Ballast Operation  
*(Consult factory).*

Specified for applications (outside the United States) where 50 Hertz operation is standard.

**PCB120V** = 120V Photo Control Button

**PCB208V** = 208V Photo Control Button

**PCB240V** = 240V Photo Control Button

**PCB277V** = 277V Photo Control Button

Factory installed photocell button.

Standard installation is in photocell knockout on MA2 mastfitter.

With Yoke mount, PCB installation is on side wall of luminaire.

Not available in 480V.

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## Accessory details (Field Installed - Shipped Separately)

**F1-KIT** = Single Fuse Kit (120V/277V)

Consists of 1 or 2 fuse holders and 1 or 2 KTK 30 amp fuses. Field installed on wiring access plate.

**F2-KIT** = Double Fuse Kit (208V/240V/480V)

**AL-40-EFX** = Clear Polycarbonate Auxiliary Lens for 13" Housing

Provides additional protection of the glass lens.

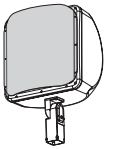
**AL-40-EFX-(COLOR)** = Colored Polycarbonate Auxiliary Lens for 13" Housing

Color coated polycarbonate lens available in a wide selection of colors, hues and shades.

**AL-10-EFX** = Clear Polycarbonate Auxiliary Lens for 19" Housing

*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. For assistance in color selection, consult factory.*

**AL-10-EFX-(COLOR)** = Colored Polycarbonate Auxiliary Lens for 19" Housing

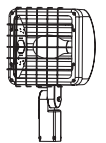


**WG-40-EFX** = Wireguard for 13" Housing

Polished stainless steel wireguard.

**WG-10-EFX** = Wireguard for 19" Housing

*Note: Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.*



**ALF-40-EFX** = Auxiliary Lens Frame for 13" Housing (400W max)

Auxiliary lens frame (without colored glass lens) may be used as a snoot.

**ALF-40-EFX-(\*)** = 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.

**ALF-10-EFX** = Auxiliary Lens Frame for 19" Housing (1000W max)

*Note: Efficiency of the luminaire is reduced with the addition of a colored lens and varies with color saturation and reflector type.*

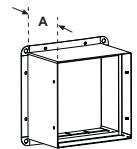
**ALF-10-EFX-(\*)** = Auxiliary Lens Frame with Colored Glass Lens for 19" Housing

(\*) Consult factory to specify lens color

*Note: Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.*

Philips Gardco recommends the use of SP or DQL reflectors with this accessory.

<b>ALF-40-EFX</b>	7.0" (17.78cm)
<b>ALF-10-EFX</b>	8.0" (20.32cm)



**SK-40-EFX-(F)** = Glare Shield for 13" Housing

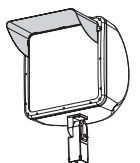
Fixed cutoff shield for additional glare control. Shield may also be mounted on bottom or side of fixture.

**SK-10-EFX-(F)** = Glare Shield for 19" Housing

(F = Specify finish)

*Note: Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.*

*Recommended finish is TBK (Textured Black).*



**EFX-HD-BD-40-(F)** = Barn Doors for 13" Housing

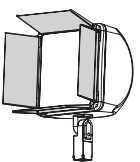
Field adjustable shields on all four sides of optical opening.

**EFX-HD-BD-10-(F)** = Barn Doors for 19" Housing

(F = Specify finish)

*Note: Consult factory when considering multiple externally mounted accessories. Mounting limitations may apply.*

*Recommended finish is TBK (Textured Black).*



**IGL-40-EFX**

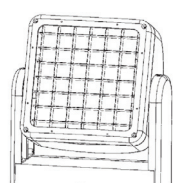
Internal Louver for 13" housing

Field adjustable internal grid louver to shield the arc tube from view (112° horizontally and 122° vertically max).

**IGL-10-EFX**

Internal Louver for 19" housing

Black finish.

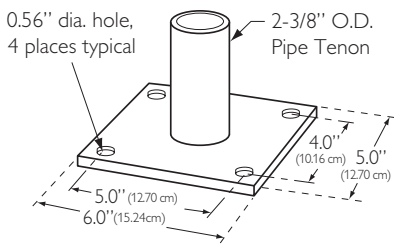
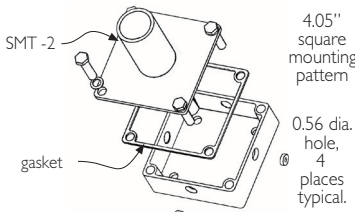
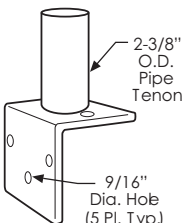
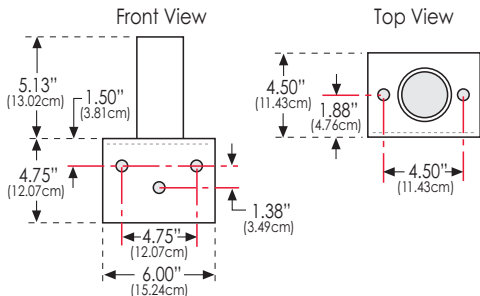
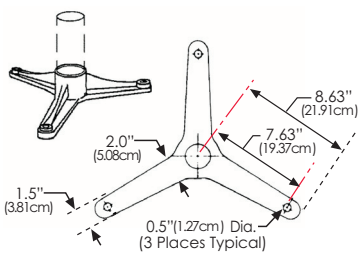
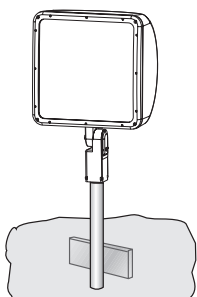


EFI Series

EFX Floodlight with integral ballast, 70-1000W HID / 85-165W QL available

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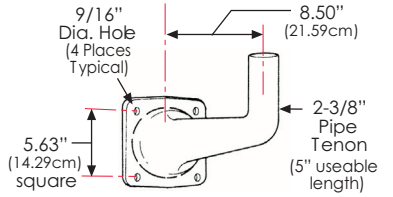
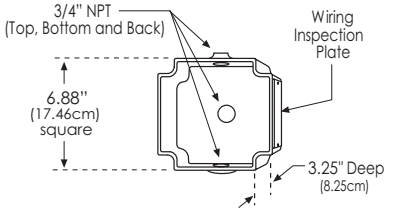
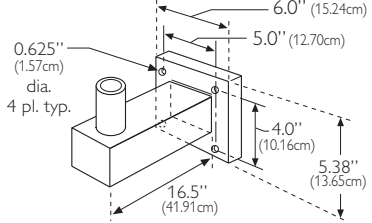
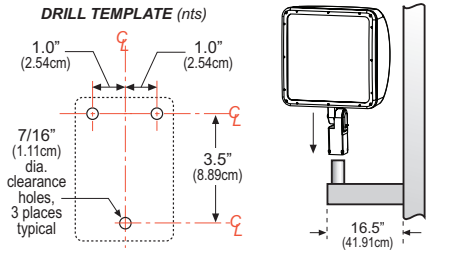
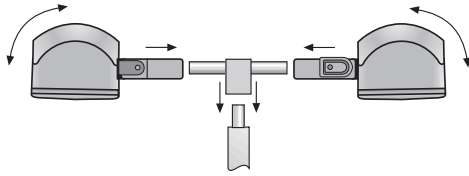
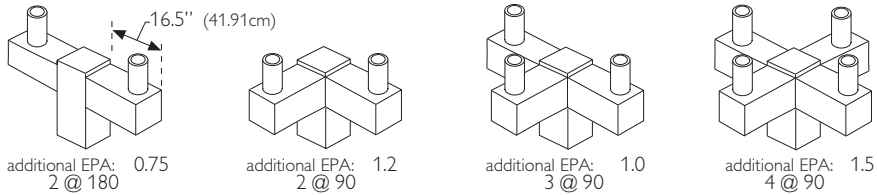
Accessory details, continued (Field Installed - Shipped Separately)

<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).	
<b>SM-18-(F)</b>	Stanchion Mount Bracket F = Specify finish	Stanchion mounting allows stable positioning of vertical tenon member in aggregate or substrate.  2-3/8" O.D. aluminum tenon welded to a 2-7/8" stanchion. Standard length: 18"	



# EFI Series

EFX Floodlight with integral ballast, 70-1000W HID / 85-165W QL available

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<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>	<p><b>DRILL TEMPLATE (nts)</b></p> 
<b>PTA-H2180-11.0-(F)</b>	Pole Top Adapter with horizontal tenons F = Specify finish	<p>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.</p> <p>(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.)</p>	
<b>PTA-2180-16.5-(F)</b>	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" O.D. x 4" vertical tenon.	
<b>PTA-2090-16.5-(F)</b>	Pole Top Adapter, 2@90°		
<b>PTA-3090-16.5-(F)</b>	Pole Top Adapter, 3@90°		
<b>PTA-4090-16.5-(F)</b>	Pole Top Adapter, 4@90° F = Specify finish		
			<p>Permits full horizontal adjustment of smaller units (13" housing); larger units (19" housing) have limited adjustment.</p> <p>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.</p>

# EFI Series

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Notes



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