

**PHILIPS**



Floodlights

Designer Flood

DF7 & DF12 HID luminaires





# Designer **Flood**





Designer Flood	.....
Floodlighting	.....
At a glance	.....



The Gardco Designer Floodlight provides remarkable floodlighting performance and control from a soft, handsome and exceptionally compact architectural form – 16 and 21 inches in width. The graceful styling and elimination of decorative elements assures that these luminaires blend effortlessly with landscapes and architecture.

Whether ground, wall or pole mounted, its timeless form is always appropriate.

It is performance however that distinguishes Gardco and the Designer Floodlight.

With metal halide and high pressure sodium lamps to 750W and choice of nine precision optical systems, the

Designer Floodlight provides the opportunity for unprecedented light control, higher illumination levels and wider, cost-saving luminaire spacings.





# Construction

## One-Piece Housing

The rugged, one-piece die cast aluminum housing was specifically engineered to endure the most tenacious vandal or careless gardener.

## Efficient Reflector Systems

Precise optical distributions frequently enable use of lower wattage fixtures than would have been necessary with other products.

## Efficient Reflector Systems

High efficiency optics permit extremely wide luminaire spacings that may help reduce fixture quantities. This translates into reduced fixture and lamp costs, as well as savings in installation, maintenance and energy.



## Straightforward Installation

The Designer Floodlight is shipped from the factory with the ballast installed and pre-wired. Every luminaire is thoroughly tested to ensure proper electrical operation.

## Heavy Duty Knuckle

The knuckle is the Achilles' Heel of the common floodlight – where even a slight impact can snap or bend the assembly. Gardco's structural, die cast aluminum knuckle withstands hard knocks and abusive treatment.

## Competitive Pricing

Highly tooled components and state-of-the-art manufacturing processes make the price of the Designer Floodlight competitive with products of lesser quality.



### Vandal Resistant Closures

Recessed allen head bolts complete a tight, secure, tamper-resistant package.

### Die Cast Door

A one-piece die cast aluminum door frame secures an impact-resistant tempered glass lens.

### Simple Maintenance

The door swings wide open for ease of maintenance – without disturbing the floodlight aiming angle.

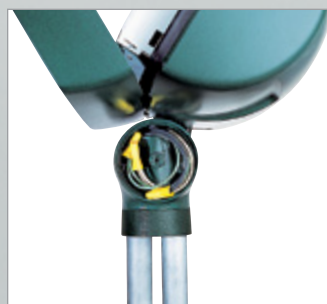
Threats to a low-level luminaire's appearance and performance are numerous and the Designer Floodlight addresses each with thoughtful design and construction features. The result is a luminaire that outperforms and outlasts other floodlights.



The die cast knuckle assembly secures the luminaire to mounting inserts – stanchion, pole top adapter, twin arm bracket or wall/ceiling canopies.



Textured polyester powdercoat finishes repel moisture, corrosives and ultraviolet rays.



Wire splices are easily made in the spacious splice compartment, which is suitable for through-circuit wiring. No auxiliary junction box is required. Gaskets secure the wiring compartment against moisture.



The luminaire is thoroughly sealed and gasketed at every point of entry and material transition to exclude moisture, dust, pollutants and insects.



A single hex head bolt is tightened to secure aiming. Incremental aiming marks are provided in the casting to ease parallel alignment of multiple fixtures.



An optional polycarbonate lens protects the optical system against vandalism and in areas where accidental impacts are frequent.



# Optics

## Uniform Light Levels

Precisely faceted reflectors generate extremely uniform lighting levels of 3:1, 6:1 and 12:1 maximum-to-minimum, depending on the requirements of the specific application.

## Higher Light Levels

The Gardco Floodlight accepts both metal halide and high pressure sodium lamps to 750W. Using these high lumen packages creates application opportunities unmatched by typical 400W products.

## Clean Pattern Appearance

Typically, HID luminaires produce streaks, striations and color separations in floodlighting patterns which are not evident in photometric reports. Gardco's precise positioning of specular reflector facets, in combination with selective use of hammer-toned material, ensures clean, unstriated patterns.

## Control of Unwanted Glare

Nine optical systems are available, each providing sharp visual cutoff to the lamp and the lamp images at normal viewing angles. Luminaires are easily placed behind landscape or architectural elements, as well as on poles or walls above eye level. This mounting flexibility allows the shielding of lamp brightness in most any installation. An optional cutoff hood and internal louver system are available for critical brightness control.

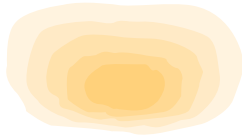


# DF7

# DF12

Designer Flood	.....
Floodlighting	.....
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Every floodlighting project is unique – with different requirements for light levels, uniformity, color characteristics and special lighting effects. Of course, setbacks and spacings will vary with luminaire and lamp selected. Consult the Designer Floodlight application guide for proper specification data.



## Horizontal Flood

The optical system of choice for providing broad even floodlighting illumination to horizontal surfaces from setbacks of 8' to 30', or for area lighting applications where wide luminaire spacings are desired. Typical applications include 1-2 story buildings, parking lots, freight yards and security lighting.



## Vertical Flood

This optical system achieves a taller distribution from setbacks of 8' to 35'. In addition, it provides an excellent distribution for area lighting applications where a greater forward projection is desired. Building floodlighting, monuments, tennis courts and swimming pools are common applications.



## Medium Flood

The medium flood provides a symmetrical distribution and is designed for illuminating architecture from setbacks of 20' to 60'. These luminaires are frequently employed for illuminating churches, storefronts and historical buildings.



## Narrow Spot

The narrow spot distribution creates an intense and symmetrical beam, providing the opportunity to highlight from considerable distances of 40' to 150'. In addition, this distribution allows for downlighting from extraordinary mounting heights of 60' to 100'. Flagpoles, towers and downlighting of atriums are common applications.



## Horizontal Spot

This wide yet highly concentrated beam is extremely versatile. It is appropriate for lighting facades or architectural details where setbacks of 20' to 80' are necessary. In addition, horizontal wall washing and grazing effects are possible with closer setbacks of 6' to 20'. When used in combination with the HFL reflector, it is possible to achieve wide area coverage with highly uniform patterns. Typical applications include floodlighting 1-2 story buildings, wall washing 4-8 story buildings and security lighting.

# Ordering guide

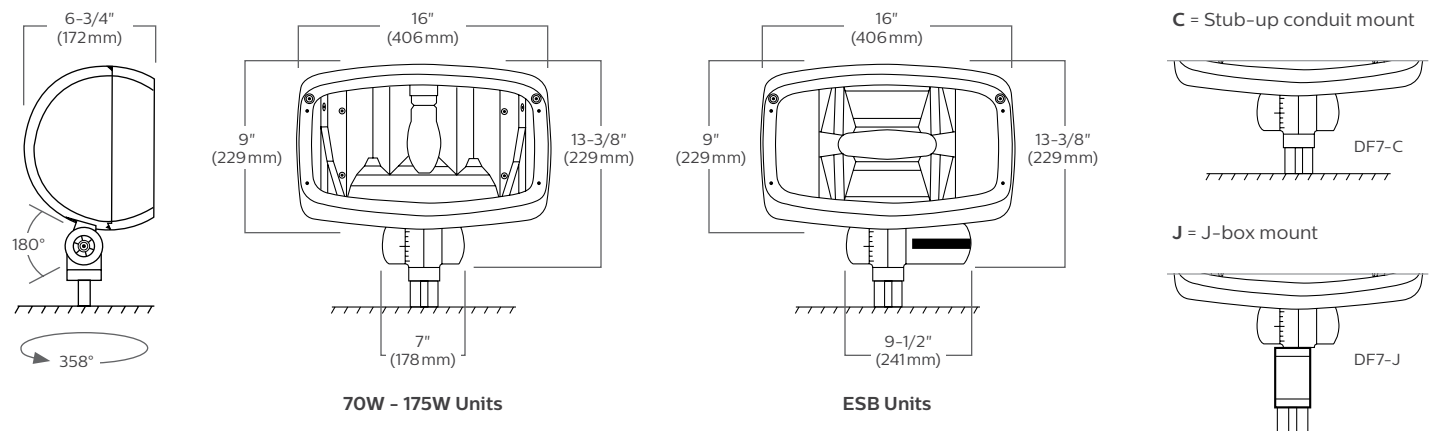
example: DF7-ST-HFL-175MH-120-BRP-CH

Luminaire	Mounting (omit code if ordering floodlight only)	Distribution	Wattage	Voltage	Finish	Options
<b>DF7</b>						
<b>DF7</b> Designer Floodlight	<b>C</b> Stub-up Conduit Mount: For direct mounting to (2) 1/2" or 3/4" GRC or IMC conduits. No j-box required. Must use factory supplied mounting insert when setting stub-ups.	<b>HFL</b> Horizontal Flood	<b>70HPS</b>	<b>120</b> 120V	<b>BRP</b> Bronze Paint	<b>PCB</b> Button Type Photocontrol (N/A above 277V)
	<b>J</b> J-Box Mount: For mounting into 1/2" hub. Also suitable for direct surface mount to walls or ceilings when fed by EMT, BX, SJO, NM, etc. (For surface mount over outlet box, specify W or W90 mount).	<b>VFL</b> Vertical Flood	<b>100HPS</b>	<b>208</b> 208V	<b>BLP</b> Black Paint	<b>BD<sup>1</sup></b> Barn Doors
	<b>W</b> Wall/Ceiling Canopy Mount: For mounting over (not to) a 4" recessed outlet box. When mounted on vertical surface, provides vertical aiming from straight down to 100° up from nadir. When mounted on a vertical surface, long axis of luminaire must be horizontal (+/-30°). Mounts directly to wall or ceiling. The surface structure must be suitable to support the luminaire. Only suitable for use on non-combustible surfaces.	<b>HSP</b> Horizontal Spot	<b>150HPS</b>	<b>240</b> 240V	<b>WP</b> White Paint	<b>CH<sup>1</sup></b> Cutoff Hood
	<b>ST</b> Stanchion Mount: 18" stanchion for in-ground concrete burial mounting.	<b>NSP</b> Narrow Spot	<b>70MH</b>	<b>277</b> 277V	<b>NP</b> Natural Aluminum Paint	<b>POLY</b> Polycarbonate Shield
	<b>SM</b> Surface Mount Stanchion: For mounting to 18" stanchion pole assembly.		<b>100MH</b>	<b>347</b> 347V	<b>VP</b> Verde Green Paint	<b>F</b> Fusing (N/A above 277V)
	<b>WMB</b> Wall Mount Bullhorn: For mounting over (not to) a 4" recessed outlet box. Provides full axial 180° vertical and 358° rotational aiming range. Mounts direct to wall. Surface structure must be suitable to support the luminaire. When mounted in wet locations, luminaire must be mounted as shown in diagrams on opposite page.				<b>OC</b> Optional Color Paint Specify RAL designation ex. OC-RAL7024.	<b>ESB<sup>2</sup></b> Extended Splice Box
	<b>W90</b> Wall Arm Mount: For mounting over (not to) a 4" recessed outlet box. Provides full axial 180° vertical and 358° rotational aiming range. Mounts direct to wall. Surface structure must be suitable to support the luminaire. When mounted in wet locations, luminaire must be mounted as shown in diagrams on opposite page. In damp or dry locations, arm assembly may be inverted.				<b>SC</b> Special Color Paint Must supply color chip.	

- Barn Doors (BD) and Cutoff Hoods (CH) are supplied BRP with BRP luminaires and BLP with all other finishes. Either can be used concurrently with the Polycarbonate Shield (POLY).
- Not available for use as additional splicing volume.

Additional mounting accessories	DF7 pole loading data	EPA ft <sup>2</sup>	DF7 splice compartment wire capacity		
<b>PTA</b> Pole top 2 3/8" tenon adapter	Single Luminaire on PTA Adapter	1.3		Standard Units	Extended Splice Box
<b>TAB</b> Twin arm bracket for use with ST or PTA	Twin Luminaires on PT2 Adapter	1.9	#12 AWG conductors (including ground)	5	9
<b>PT2</b> Pole top 2-3/8" tenon adapter for twin back to back luminaire mounting.	Twin Luminaires on TAB Adapter	2.8	#10 AWG conductors (including ground)	3	7

## Dimensions

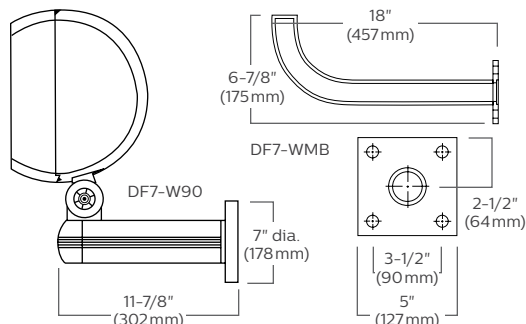
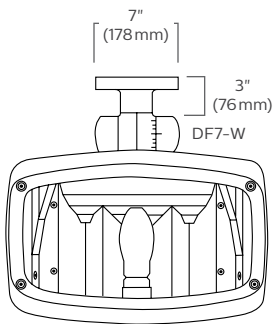




**W** = Wall/ceiling canopy mount

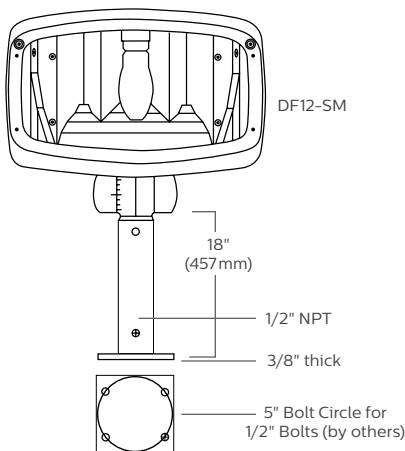
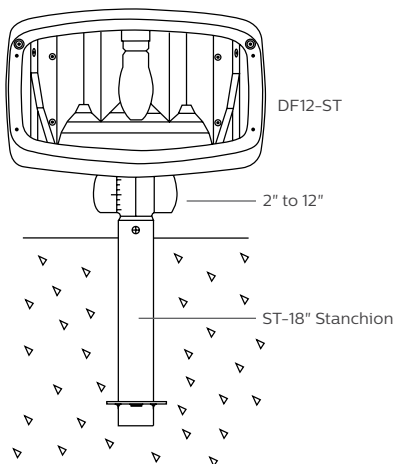
**W90** = Wall arm mount

**WMB** = Wall mount bullhorn

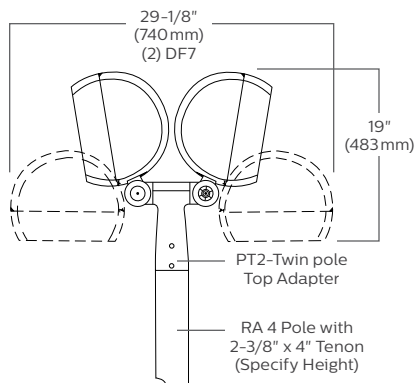
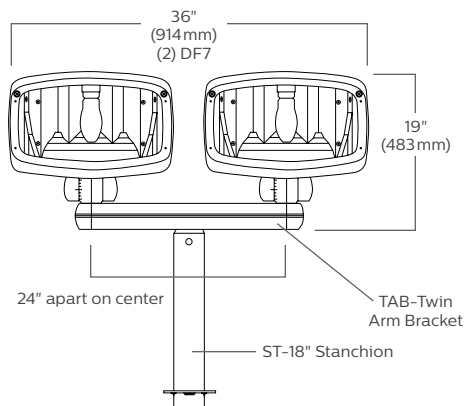
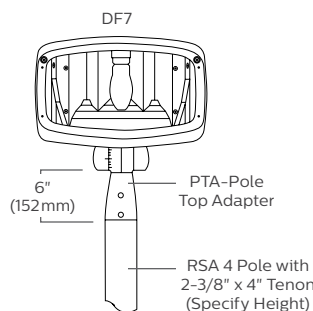
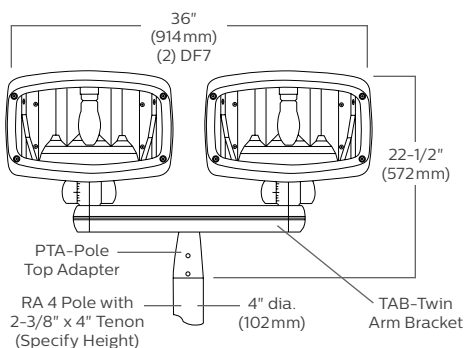


**ST** = Stanchion mount

**SM** = Surface mount stanchion



**Pole Mounting with Accessories**



Designer Flood  
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Floodlighting  
.....  
Specifications  
.....



**Stub-Up** conduit mounts without J-Box so luminaire can be mounted at grade.



**Stanchion** mounting for heights of 2" to 12" above grade, and for in-concrete placement.



**Surface mount stanchion** for wall, roof or concrete surface mounting (18" length) anchor bolt mounting.

**J-Box** for mounting into 1/2" hub, and for mounting directly to walls, ceilings, trees or sides of straight square poles.



**Wall/Ceiling Canopy** mount with minimal profile for downlighting.



**Arm Mount or Wall Mount Bullhorn** enables full vertical and horizontal aiming, and may be used for wall-washing effects.



**Pole Top** style with smooth tapered adapter is designed for mounting to 4" round poles with a standard 2-3/8" tenon. Shown here with optional barn doors.



**Twin Back-to-Back** pole mount is a natural choice for median-mounted luminaires downlighting adjacent parking areas.



**Twin Arm Bracket** provides flexibility for mounting pole-top or to ground stanchion. Full directional and rotational aiming, including uplight and downlight in combination.

# Ordering guide

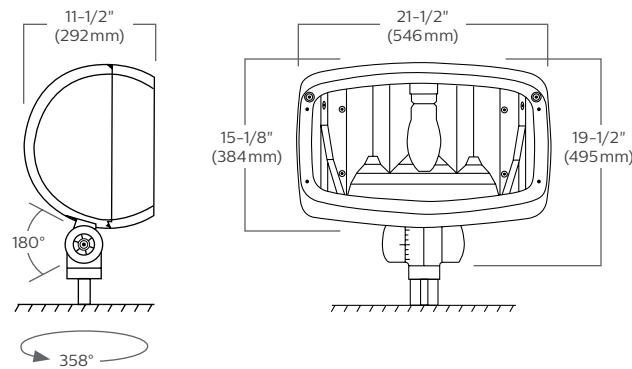
example: DF12-ST-HFL-400PSMH-120-BRP-CH

Luminaire	Mounting (omit code if ordering floodlight only)	Distribution	Wattage	Voltage	Finish	Options <sup>3</sup>
<b>DF12</b>						
<b>DF12</b> Designer Floodlight	<b>W</b> Wall/Ceiling Canopy Mount: For mounting over (not to) a 4" recessed outlet box. When mounted on vertical surface, provides vertical aiming from straight down to 100° up from nadir. When mounted on a vertical surface, long axis of luminaire must be horizontal (+/-30°). Mounts directly to wall or ceiling. The surface structure must be suitable to support the luminaire. Only suitable for use on non-combustible surfaces.	<b>HFL</b> Horizontal Flood (N/A w/250w)	<b>250PSMH</b>	<b>120</b> 120V	<b>BRP</b> Bronze Paint	<b>PCB</b> Button Type Photocontrol (N/A above 400W)
		<b>VFL<sup>1</sup></b> Vertical Flood	<b>320PSMH</b>	<b>208</b> 208V	<b>BLP</b> Black Paint	
		<b>MFL</b> Medium Flood	<b>350PSMH</b>	<b>240</b> 240V	<b>WP</b> White Paint	<b>CH<sup>2</sup></b> Cutoff Hood
		<b>HSP<sup>1</sup></b> Horizontal Spot	<b>400PSMH</b>	<b>277</b> 277V	<b>NP</b> Natural Aluminum Paint	<b>POLY</b> Polycarbonate Shield (N/A w/250W)
		<b>NSP</b> Narrow Spot	<b>750PSMH</b>	<b>347</b> 347V	<b>VP</b> Verde Green Paint	<b>F</b> Fusing (N/A w/250W or above 277V)
	<b>ST</b> Stanchion Mount: 18" stanchion for in-ground concrete burial mounting.		<b>250HPS</b>	<b>480</b> 480V	<b>OC</b> Optional Color Paint Specify RAL designation ex. OC-RAL7024.	<b>ESB</b> Extended Splice Box
	<b>SM</b> Surface Mount Stanchion: For mounting to 18" stanchion pole assembly.		<b>400HPS</b>		<b>SC</b> Special Color Paint Must supply color chip.	<b>LV</b> Internal Louvers (MFL, HSP and NSP only)
	<b>WMB</b> Wall Mount Bullhorn: For mounting over (not to) a 4" recessed outlet box. Provides full axial 180° vertical and 358° rotational aiming range. Mounts direct to wall. Surface structure must be suitable to support the luminaire. When mounted in wet locations, luminaire must be mounted as shown in diagrams on opposite page.		<b>750HPS</b>			<b>QS</b> Quartz Restrike (N/A above 400W)
	<b>W90</b> Wall Arm Mount: For mounting over (not to) a 4" recessed outlet box. Provides full axial 180° vertical and 358° rotational aiming range. Mounts direct to wall. Surface structure must be suitable to support the luminaire. When mounted in wet locations, luminaire must be mounted as shown in diagrams on opposite page. In damp or dry locations, arm assembly may be inverted.					

1. Available in 400 watt and lower ONLY.
2. Cutoff Hoods (CH) are supplied BRP with BRP luminaires and BLP with all other finishes.  
Can be used concurrently with the Polycarbonate Shield (POLY).
3. Options must be ordered with the luminaire. These cannot be added later without field modification.

Additional mounting accessories	DF12 pole loading data	EPA ft <sup>2</sup>	DF12 splice compartment wire capacity		
<b>PTA</b> Pole top 2 3/8" tenon adapter	Single Luminaire on PTA Adapter	2.6		Standard Units	Extended Splice Box
<b>TAB</b> Twin arm bracket for use with ST or PTA	Twin Luminaires on PT2 Adapter	3.7	#12 AWG conductors (including ground)	5	9
<b>PT2</b> Pole top 2-3/8" tenon adapter for twin back to back luminaire mounting.	Twin Luminaires on TAB Adapter	5.6	#10 AWG conductors (including ground)	3	7

## Dimensions



## DF7/DF12 Specifications

Each Gardco DF Series luminaire is a floodlight for high intensity discharge lamps. Internal components are totally enclosed, rain-tight, dust-tight, and corrosion-resistant. Housing, door frame, and knuckle assembly are all die cast aluminum. A choice of nine optical systems are available. DF7 units are suitable for wall, stanchion, pole, j-box and conduit mounting. DF12 units are suitable for wall, stanchion or pole mounting.

**Housing:** Single piece aluminum housing is die cast in a soft barrel form. Memory retentive gasket mates with door frame to exclude moisture, dust, insects and pollutants from electrical and optical systems.

**Door Frame:** Single piece die cast aluminum door frame integrates to housing form. Captive stainless steel hinge pins allow access to luminaire for installation and lamping. Door

frame is hinged closed and secured to housing with captive stainless steel recessed allen-head bolts. Heat and impact resistant 3/16" tempered glass lens and one-piece silicone gasket are mechanically secured to door frame with (6) galvanized steel retainers.

**Knuckle:** High strength die cast aluminum knuckle features an integral splice compartment. A single, captive 3/8" stainless steel allen-head bolt and a stainless steel nut securely lock knuckle aiming teeth in 5° increments. Opposite cover plate is removable for access to splices. Knuckle assembly is fully gasketed.

**Optical Systems:** The wide, vertical and medium flood, and the horizontal spot optical systems are homogenous sheet and extruded aluminum, electro-chemically brightened, anodized and sealed. The segmented reflectors are set in faceted arc tube image duplicating patterns to achieve required distributions. The narrow spot reflector is hydroformed Alzak® aluminum.

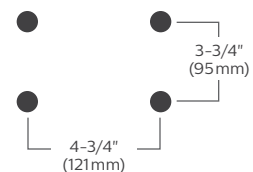
**Electrical:** Each high power factor ballast is the separate component magnetic type capable of providing reliable lamp starting to -20°F.

**Lampholder:** Pulse rated mogul base lampholder is glazed porcelain with nickel plated screw shell.

**Finish:** Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, textured polyester powder finish. Refer to Color Selection Guide for optional colors. Special color finishes may vary. Consult factory.

**Labels:** All luminaires have UL or CUL (where applicable) Wet Location labels. Gardco Lighting reserves the right to change materials or modify the design of its product without notification as part of the company's continuing product improvement program.

**Wall/Ceiling mounting bolt pattern**  
For both DF7 and DF12.

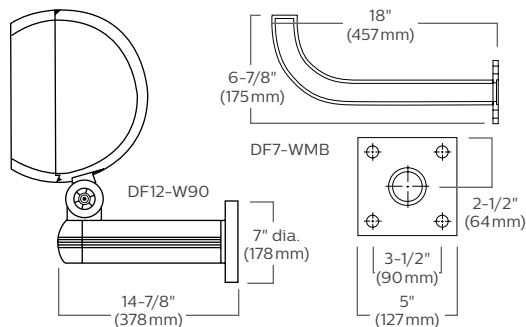
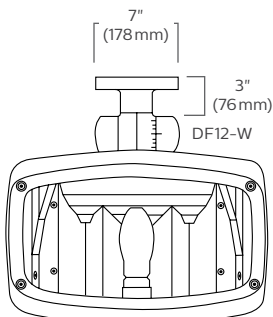




**W** = Wall/ceiling canopy mount

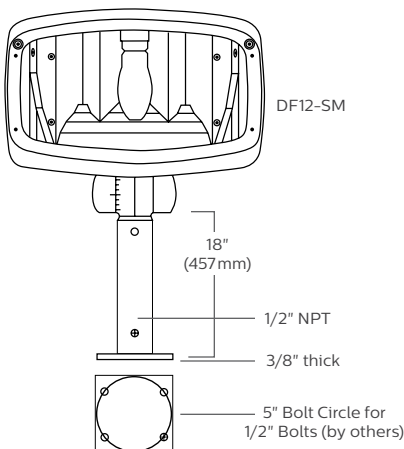
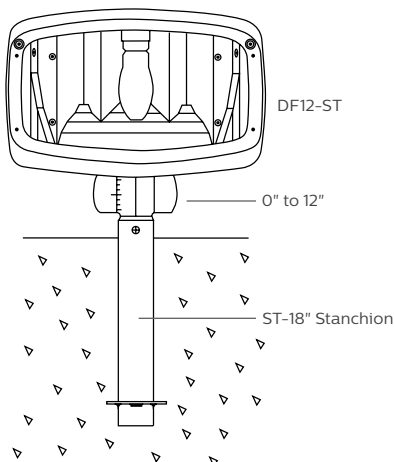
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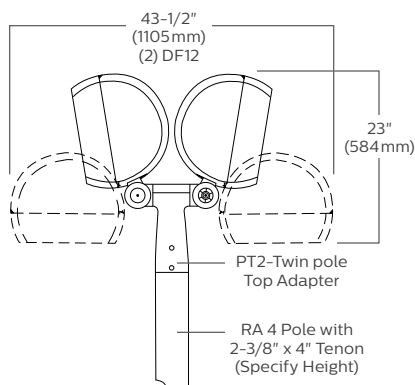
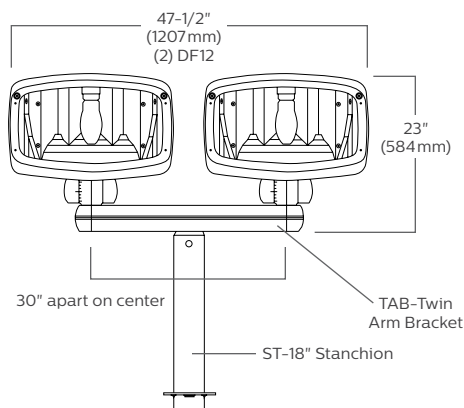
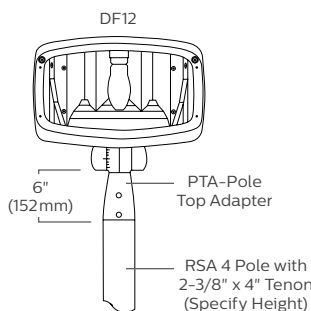
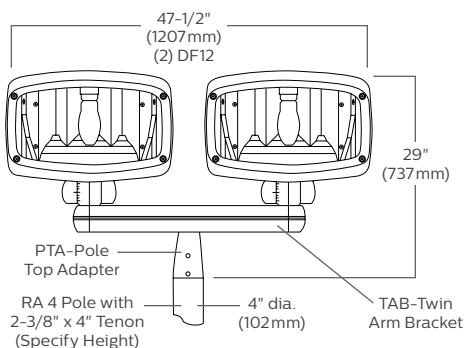


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**Pole Mounting with Accessories**



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**Cutoff Hood** provides sharp cutoff of source brightness



**Polycarbonate Shield** for critical vandal areas. Shield may discolor and require replacement every 2-3 years.



**Narrow Spot with Internal Louver** provides control of stray light beyond specified beam. Internal mounting design eliminates accumulation of leaves and dirt and deters vandalism.



**Stanchion** mounting for heights of 0" to 12" above grade for inconcrete placement.



**Surface Mount Stanchion** for wall, roof or concrete surface mounting (18" length) anchor bolt mount.



**Wall/Ceiling Canopy** mount with minimal profile for downlighting.



**Arm Mount or Wall Mount Bullhorn** enables full vertical and horizontal aiming, and may be used for wall-washing effects.



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