

# INFRANOR™ POLARIS - 12



Job Name: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Job Number: \_\_\_\_\_

Distributor: \_\_\_\_\_

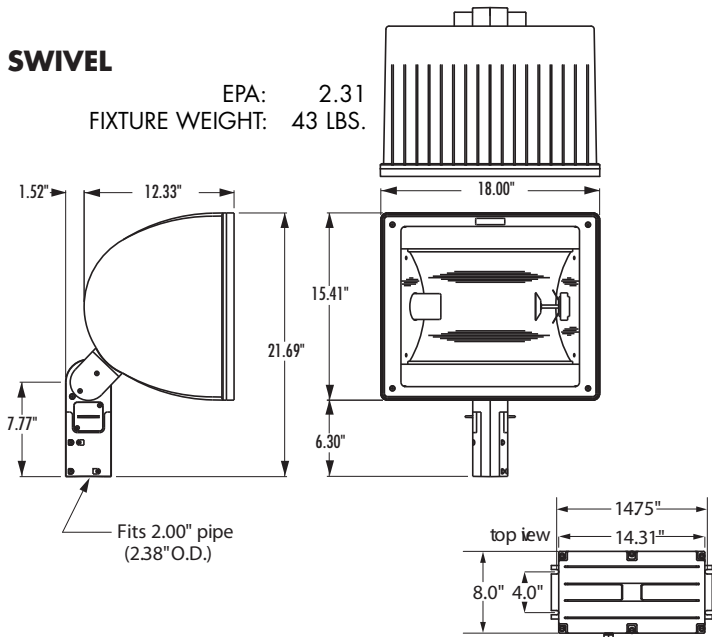
Distributor P.O.: \_\_\_\_\_

## FIXTURE DIMENSIONS



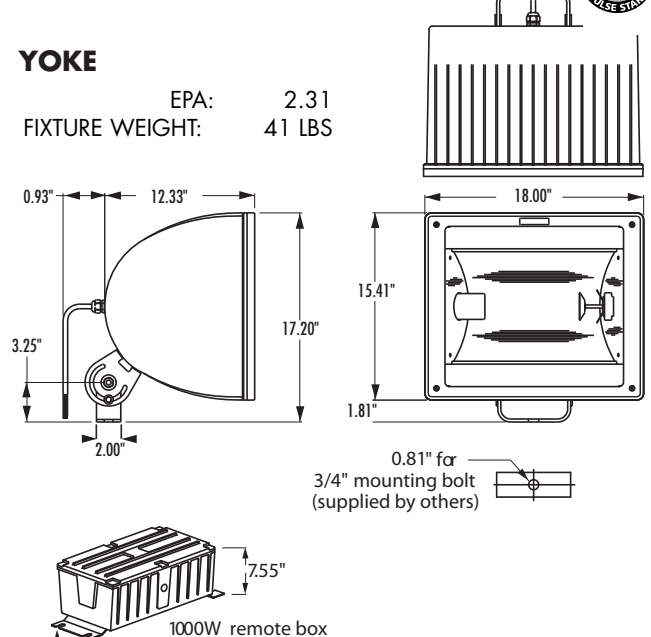
### SWIVEL

EPA: 2.31  
FIXTURE WEIGHT: 43 LBS.



### YOKE

EPA: 2.31  
FIXTURE WEIGHT: 41 LBS



## INFRANOR POLARIS - 12 WRITTEN SPECIFICATIONS

### HOUSING

The luminaire housing shall be one-piece die-cast aluminum with integral cooling fins for heat dissipation. The perimeter of the casting shall incorporate a channel designed to retain a silicone O-ring gasket, providing a compression seal to the doorframe assembly. The luminaire housing, including the wire entrance, shall be completely sealed from the outside environment.

### LENS & DOORFRAME

The luminaire lens shall be clear tempered glass, 0.188" thick, thermal and impact resistant. Lens shall be set into a die-cast aluminum doorframe, gasketed and retained by four continuous galvanized steel clips around the lens perimeter for uniform pressure and watertight seal.

Doorframe shall be one-piece die-cast aluminum and secured to the housing with four #10 recessed and self-retained stainless steel screws. The exterior shall contain four cored holes for securing external shielding accessories. The inner perimeter of the door casting shall incorporate a c-channel, designed to compress the O-ring gasket in the housing at two points, providing a "dual seal" to prevent the entrance of contaminants and moisture.

### HEAVY DUTY SWIVEL

The swivel shall be a two-piece die-cast aluminum assembly, designed to mount directly to a 2" pipe tenon (2.38" O.D.). Swivel shall incorporate two access panels in the side for wire access to the cULus recognized splice compartment. Swivel shall mount to the luminaire housing with two die-cast hubs for additional mounting support and locking capability to withstand the toughest of environmental conditions and shall allow for infinite aiming positions within its aiming range.

### YOKE

The luminaire yoke shall be of formed aluminum 0.25" thick and 2.00" wide. Yoke shall allow for infinite aiming positions within its aiming range. Yoke version shall be equipped with a watertight connector and 3' of 16/3 STO-W cord.

### FINISH

Finished parts are washed in a multistage phosphate processing system and finished with a polyester urethane powder coat paint. Standard colors are dark bronze, black, white, and natural aluminum. Contact factory for non-standard colors.

### REFLECTOR

The luminaire reflector module shall be of a high purity anodized or patterned specular aluminum in a choice of forms to provide a wide selection of constricted, rectangular, high-proportioned, beam patterns. All reflector units (spot to be spun aluminum) shall be backed by an aluminum extrusion for stability and repeatability of distribution.

### ELECTRICAL MODULE

Luminaire shall be cULus listed for use in wet locations and manufactured from UL recognized electrical components. Electrical assembly is easily accessible through the reflector module. Each high power factor ballast is capable of starting temperatures down to -20°F (-28.9°C) and shall be CWA. The socket shall be a mogul-based porcelain socket with a 4KV rating.

### LAMP

Luminaire shall accept the following lamps:

250PMH, 320PMH*, 350PMH	ED28
400PMH*	ED28/ED37
1000PMH, 875PMH	BT37
250HPS, 400HPS	E18

(\* distribution dependant)

To obtain the highest level of lighting quality, it is recommended to replace lamps before reaching predicted lamp life per manufacturer's and IES guidelines. It is also recommended to group re-lamp to maintain uniformity and performance.

### REMOTE MOUNTED BALLAST BOX (1000MH)

Ballast shall be housed in a cast aluminum housing with heat dissipating fins and supplied with (2) watertight connectors. Ballast box shall have a cast aluminum cover and is secured with (6) plated steel fasteners. Ballast shall be capable of mounting at a distance of 200 ft. (based on 10-gauge wire and 1% voltage drop). The cast aluminum alloy shall contain less than 2/10 of 1% copper for resistance to corrosion including marine applications.



701 Millennium Blvd • Greenville, SC 29607 • TEL 864.678.1000 FAX 864.678.1417 • www.sternerlighting.com

*In the interest of continuous product improvement, Sterner Lighting reserves the right to change specifications without notice.*



# POLARIS - 12

## ORDERING SEQUENCE

Item Sequence:  
**ORDER NUMBER:**

1 <b>HOUSING</b> PL12	2 <b>LAMP WATTAGE</b> 250PMH 320PMH 350PMH 400PMH <sup>1,2,3</sup> 875PMH <sup>4,5,6,7</sup> 1000PMH <sup>4,5,6,7</sup>  250HPS 400HPS	3 <b>BEAM PATTERN</b> SP <sup>1,2</sup> HPM <sup>3,5</sup> RN <sup>5</sup> HPM1 <sup>1,2</sup> RM <sup>5</sup> HPW <sup>3,5</sup> RW <sup>5</sup> HPW1 <sup>1,2</sup>	4 <b>VOLTAGE</b> 120 277 208 347 240 480 <sup>7</sup>	5 <b>BALLAST</b> C	6 <b>MODEL STYLE</b> SW YK	7 <b>MOUNTING OPTIONS</b> PD ST WM DP <sup>5</sup> (swivel only)	8 <b>SHIELD OPTIONS</b> PL WB SF  TS EC <sup>9</sup> 4S BD SG <sup>6,9</sup>  N	9 <b>GENERAL OPTIONS</b> FL SC PCL <sup>7</sup>  N	10 <b>FINISH</b> BK BZ WH AL  NS <sup>10</sup>
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Notes: 1) '400PMH' only available with 'SP', 'BI', 'HPM1' & 'HPW1' distributions.  
2) 'SP', 'BI', 'HPM1', 'HPW1' requires ED28 lamps in '400MH'.  
3) '400PMH' & 'HPM', 'HPW' distributions require ED37 lamps.  
4) '1000PMH' uses remote ballast box.  
5) '1000PMH' only available with 'RN', 'RM', 'RW', 'HPM' & 'HPW' distributions.  
6) '1000PMH' not available with 'SG', 'FL', 'PCL' options.  
7) 'PCL' Eye Dot Photocell not available in '1000PMH' or '480V'.  
8) 'DP' option automatically doubles the fixture quantity unless otherwise specified.  
9) 'SG' not available with 'EC'.  
10) Please supply metal color chip or supply RAL# for any 'NS' finish.

### 1. HOUSING 2. LAMP WATTAGE 3. BEAM PATTERN

(PL12)

**HALIDE**  
 (250PMH) ED28  
 (320PMH) ED28  
 (350PMH) ED28  
 (400PMH)\* ED28/ED37  
 (875PMH) ED37  
 (1000PMH)\*\*BT17

**SODIUM**  
 (250HPS)E18  
 (400HPS)E18

**HALIDE & SODIUM**  
 (SP)\*  (RN)  (RM)  (RW)

(HPW)\*\*  (HPW1)\*  
 (HPM)\*\*  (HPM1)\*

(\*'400PMH' ED28 only available with 'SP', 'BI', 'HPM1' & 'HPW1' distributions.)  
 (\*\*'1000PMH' uses remote ballast box.)  
 (\*\*'1000PMH' only available with 'RN', 'RM', 'RW', 'HPM' & 'HPW' distributions.)  
 (\*\*'1000PMH' not available with 'SG' & 'PCL' options.)

(\*'SP', 'HPM1' & 'HPW1' distributions require ED28 lamps in '400PMH'.)  
 (\*\*'HPM' & 'HPW' distributions require ED37 lamps in '400PMH'.)  
 ('1000PMH' only available with 'RN', 'RM', 'RW', 'HPM' & 'HPW' distributions.)  
 (SP=spot, R=rectangular,HP=high-point, N=narrow, M=medium, W=wide.)

### 4. VOLTAGE 5. BALLAST 6. MODEL STYLE

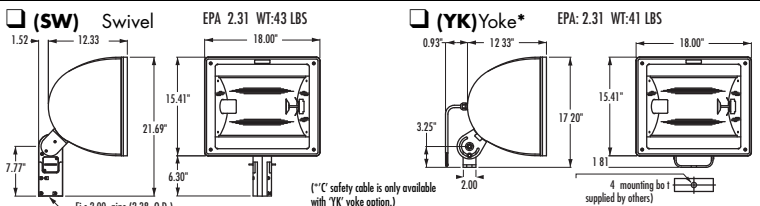
(120)  (277)  
 (208)  (347)  
 (240)  (480)

(\*480V not available with 'PCL' Eye Dot Photocell option.)

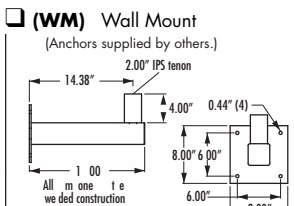
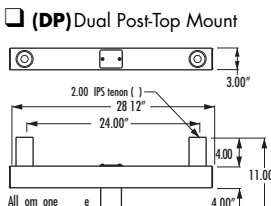
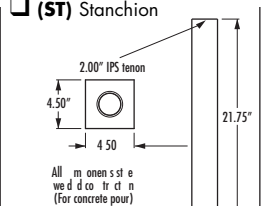
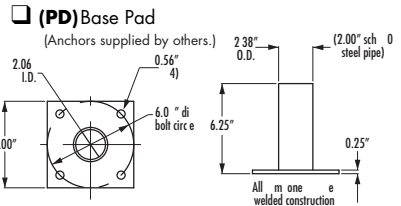
(C)\* Core & Coil

(\* Core & coil ballast is high-power factor and rated for -20°F (-28.9°C).)

(\*'1000PMH' uses remote ballast box.)

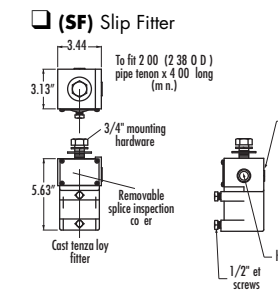
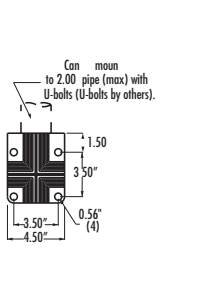
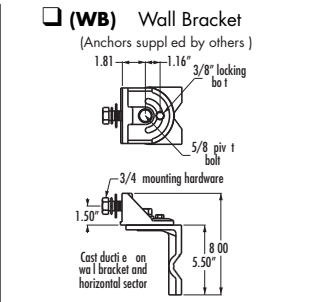
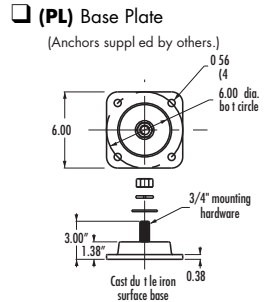


### 7. SWIVEL MOUNTING OPTIONS (DP\* option automatically doubles the fixture quantity unless otherwise specified)



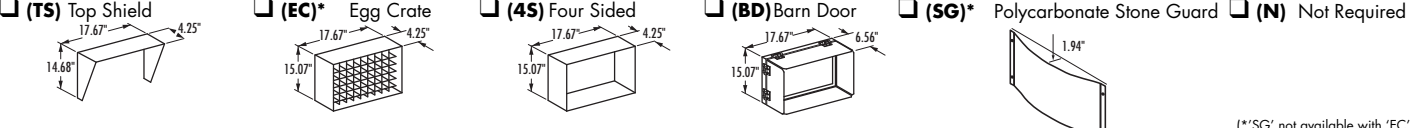
(N) Not Required

### 7. YOKE MOUNTING OPTIONS



(N) Not Required

### 8 SHIELD OPTIONS



### 9 GENERAL OPTIONS 10 FINISH

(FL) Fuse Luminaire  (SC) Safety Cable  (PCL)\* Eye Dot Photocell (\*'PCL' not available in '250MH'.)  
 (BK) Black  (BZ) Dark Bronze  (WH) White (\*Please supply metal color chip or supply RAL# for any 'NS' finish.)  
 (N) Not Required  (AL) Natural Aluminum  (NS)\* Non-Standard