

The Gardco RA Straight Round Aluminum pole consists of a one-piece round extruded aluminum lighting standard mounted to a cast aluminum base. The poles are finished with either Architectural Class 1 anodizing or electrostatically applied TGIC polyester powdercoat.

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat.No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

### Ordering Guide

example: RA4.5-CB-12-D1-BRP

Prefix	Base	Height	Wind Factor Code <sup>2</sup>	Drilling <sup>1</sup>	Finish	Options
	<b>CB</b>					
<b>RA4</b>	<b>CB</b>	10 12 15	-	<b>D1</b> 1 Way <b>D2</b> 2 Way at 180° <b>D2@90</b> 2 Way at 90° <b>D3</b> 3 Way at 90° <b>D3@120</b> 3 Way at 120° <b>D4</b> 4 Way <b>T2</b> 2-3/8" OD Tenon X 4" long	<b>BRP</b> Bronze Paint <b>BLP</b> Black Paint <b>WP</b> White Paint <b>MGY</b> Medium Grey Paint <b>DGY</b> Dark Grey Paint <b>BRA</b> Bronze Anodized Paint <b>BLA</b> Black Anodized Paint <b>NA</b> Natural Anodized Paint <b>OC</b> Optional Color Paint (Specify RAL designation ex: RAL7024) <b>SC</b> Special Color Paint (Specify. Must supply color chip.)	<b>DR</b> Duplex Receptacle <b>GFCI</b> Ground Fault Receptacle <b>VDA</b> Vibration Dampener <b>AHH</b> Additional Hand Hole  For DR, GFCI, and AHH options, indicate height above base and orientation to original hand hole. See Pole Orientation Information on Page 5.  <b>Nipples and Couplings</b> <b>CL1/2</b> Coupling - Internal Thread 1/2" <b>CL3/4</b> Coupling - Internal Thread 3/4" <b>CL1</b> Coupling - Internal Thread 1" <b>CL1-1/4</b> Coupling - Internal Thread 1-1/4" <b>CL1-1/2</b> Coupling - Internal Thread 1-1/2" <b>NL1/2</b> Nipple - External Thread 1/2" <b>NL3/4</b> Nipple - External Thread 3/4" <b>NL1</b> Nipple - External Thread 1" <b>NL1-1/4</b> Nipple - External Thread 1-1/4" <b>NL1-1/2</b> Nipple - External Thread 1-1/2"  Indicate height above base and orientation to hand hole. See Pole Orientation Information on Page 5.  <b>Single Mount Bullhorn Brackets</b> <b>A15BH-19</b> Single - 1.9" OD <sup>3</sup> <b>A15BH-24</b> Single - 2.4" OD <b>A215BH-19</b> 2-Tenon - 1.9" OD <sup>3</sup> <b>A215BH-24</b> 2-Tenon - 2.4" OD  Indicate height above base and orientation to hand hole. See Pole Orientation Information on Page 5.  Additional and alternative brackets and accessories available. Refer to the Signify product catalog (eCat) website for more information
<b>RA4.5</b>		10 12 15 18 20	-	<b>T3</b> 3" OD Tenon X 4" long <b>T4</b> 4" OD Tenon X 6" long <b>P</b> Plain Top (No Drilling/No Tenon)		
<b>RA5</b>		15 18 20	L M H  L M H  L M H			

- Standard poles are drilled in factory for compatibility with Signify luminaires only (D\* options). For non-Signify-brand luminaires, select the P drilling option.
- Refers to relative strength based on wind load factors. L = Light M = Medium H = Heavy
- For Gardco DFL7/DFC7 only

### Anchor Bolts for Gardco RA-CB and RA-HB Poles, ordered separately:

	12NC for ordering	Description (in inches)
For Pre-ship service (Order 4 per pole)	912400215786	0.75 x 18 x 3.75
For shipment with the pole (Order 1 per pole)	912400207384	0.75 x 18 x 3.75

# Poles Straight Round Aluminum – Cast Base

## Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data <sup>2</sup>		
	Height (ft)	Pole Diameter (inches)	Wall Thickness (inches)	Structure Weight (lbs)	Bolt Circle (inches)	Bolt Size (inches)	Max Proj. (inches)
RA4-CB-10	10	4	0.125	22	6.5 - 8.25	0.75 x 18 x 3.75	3.25
RA4-CB-12	12	4	0.125	26	6.5 - 8.25	0.75 x 18 x 3.75	3.25
RA4-CB-15	15	4	0.125	33	6.5 - 8.25	0.75 x 18 x 3.75	3.25
RA4.5-CB-10	10	4.5	0.125	25	7 - 8.625	0.75 x 18 x 3.75	3.25
RA4.5-CB-12	12	4.5	0.125	29	7 - 8.625	0.75 x 18 x 3.75	3.25
RA4.5-CB-15	15	4.5	0.188	53	7 - 8.625	0.75 x 18 x 3.75	3.25
RA4.5-CB-18	18	4.5	0.188	59	7 - 8.625	0.75 x 18 x 3.75	3.25
RA4.5-CB-20	20	4.5	0.188	64	7 - 8.625	0.75 x 18 x 3.75	3.25
RA5-CB-15L	15	5	0.125	41	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-15M	15	5	0.156	50	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-15H	15	5	0.188	58	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-18L	18	5	0.125	45	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-18M	18	5	0.156	55	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-18H	18	5	0.188	65	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-20L	20	5	0.125	50	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-20M	20	5	0.156	61	7.5 - 9.5	0.75 x 18 x 3.75	3.25
RA5-CB-20H	20	5	0.188	72	7.5 - 9.5	0.75 x 18 x 3.75	3.25

- Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.

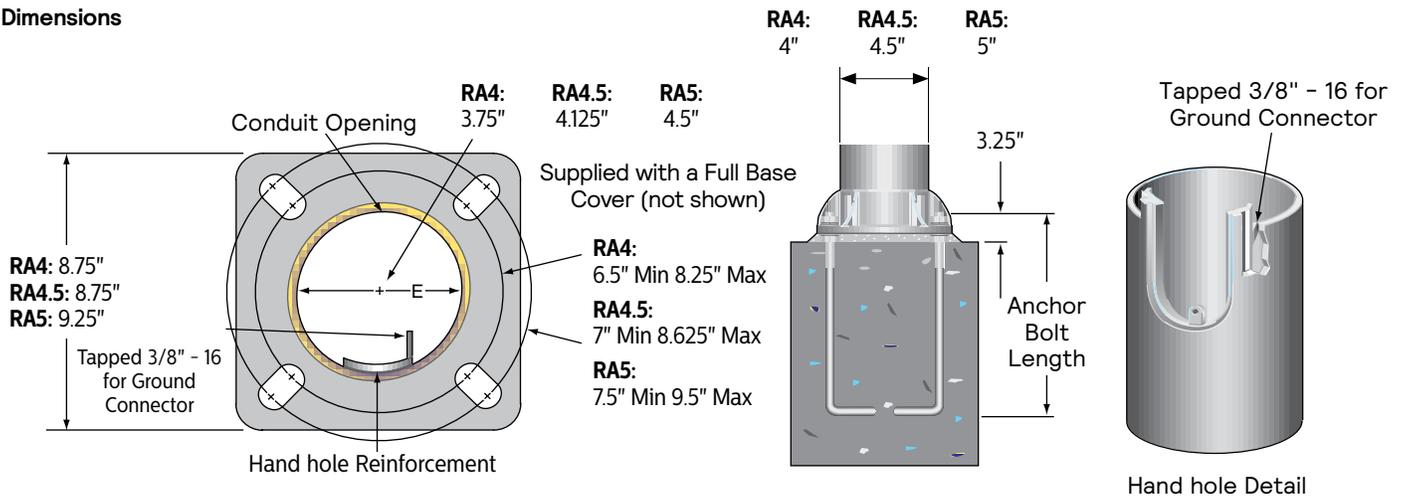
# Poles Straight Round Aluminum - Cast Base

## Pole Data

Catalog Number	Maximum Luminaire Loading <sup>1</sup>							
	High Wind Conditions		Normal Wind Conditions					
	110 MPH		100 MPH		90 MPH		80 MPH	
Prefix	EPA ft <sup>2</sup>	Max Weight (lbs)	EPA ft <sup>2</sup>	Max Weight (lbs)	EPA ft <sup>2</sup>	Max Weight (lbs)	EPA ft <sup>2</sup>	Max Weight (lbs)
RA4-CB-10	2.7	75	3.3	75	4.3	75	5.9	75
RA4-CB-12	1.7	75	2.2	75	3.0	75	4.3	75
RA4-CB-15	0.2	100	0.5	100	1.0	100	1.9	100
RA4.5-CB-10	4.1	100	5.1	100	6.4	100	8.4	100
RA4.5-CB-12	3.0	75	3.8	75	4.8	75	6.5	75
RA4.5-CB-15	2.6	100	3.4	100	4.3	100	6.0	100
RA4.5-CB-18	1.8	100	2.3	100	3.1	100	4.5	100
RA4.5-CB-20	1.0	100	1.4	100	2.0	100	3.2	100
RA5-CB-15L	2.3	100	3.0	100	3.8	100	5.1	100
RA5-CB-15M	3.3	100	4.1	100	5.3	100	6.9	100
RA5-CB-15H	4.2	100	5.3	100	6.7	100	8.7	100
RA5-CB-18L	1.5	100	2.0	100	2.7	100	3.7	100
RA5-CB-18M	2.3	100	3.0	100	3.9	100	5.2	100
RA5-CB-18H	3.1	100	4.0	100	5.1	100	6.8	100
RA5-CB-20L	0.8	100	1.2	100	1.7	100	2.4	100
RA5-CB-20M	1.5	100	2.0	100	2.8	100	3.8	100
RA5-CB-20H	2.2	100	2.9	100	3.8	100	5.2	100

- Warning:** Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates.

## Dimensions



**NOTE:** Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.

# Poles Straight Round Aluminum – Cast Base

## Specifications

All aluminum alloys shall comply with metallurgical and mechanical properties set forth in the Aluminum Association Standards.

### POLE SHAFT

The shaft shall be extruded from all new seamless 6063 alloy aluminum and shall be heat treated to produce a T6 temper. The shaft shall be polished with fine grain aluminum oxide cloths, resulting in a high quality circumferential satin brushed finish. After finishing, each pole shall be fully tire-wrapped with neutral PH krinkle/kraft paper for protection in shipment. .

### ANCHOR BASE

The anchor base is cast from A356 alloy aluminum. The shaft shall be inserted into the anchor base casting. The anchor base casting and shaft shall be joined by a continuous circumferential weld at the inside bottom of the anchor base. The completed assembly shall be heat treated

to a T6 condition. A full base cover shall be included with each anchor base.

### ANCHOR BOLTS

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 50,000 psi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are completely hot dipped galvanized. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole as an accessory, unless otherwise specified. An anchor bolt template will be provided automatically when pre-shipped anchor bolts are requested. For anchor bolt shipment with poles, the pole itself will be used as the template.

### HAND HOLE

All poles shall include a peripherally reinforced flush covered hand hole centered 18" above the bottom of the pole. The opening shall measure 2 3/8" x 4 1/2" or 3" x 5".

### DRILLING

Standard poles are drilled in factory for compatibility with Signify luminaires, optional brackets, and accessories. Signify is not liable for damage caused by unauthorized attachments, alterations, or modifications.

If luminaires are to be supplied by others, Signify/Gardco/Stonco is not responsible for pole compatibility with luminaires, structural integrity of the pole or wind load requirements.

### POLE TOP CAP

Each RA pole assembly is provided with a removable black composite friction-fit pole top cap.

### FINISH

Poles are available with Association Architectural Class 1 anodized finish. Electrostatically applied, thermally cured TGIC polyester powdercoat finish or liquid polyurethane is also available.

## General Pole Information

### DESIGN

The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind speeds with an additional 30% gust factor under the following conditions:

The charted weights include luminaire(s) and/or mounting bracket(s).

The wind velocities are based on 10 mph increments from 80 mph through 110 mph. Poles to be located in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds.

Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation.

Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

### WARNING

This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and

foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to insure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

### GENERAL INFORMATION

Mounting height is the vertical distance from the base of the lighting pole to the center of the luminaire arm at the point of luminaire attachment.

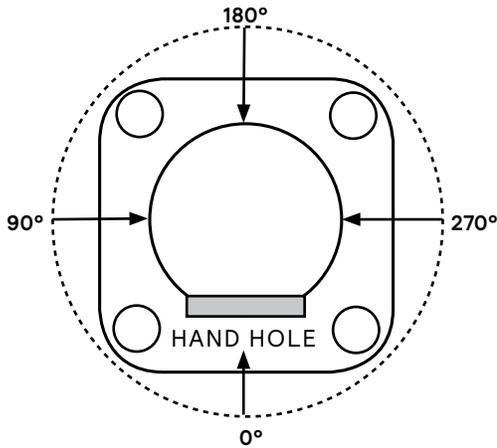
### WARRANTY

Gardco poles feature a 1 year limited warranty. See Warranty Information on [www.signify.com/warranties](http://www.signify.com/warranties) for complete details and exclusions.

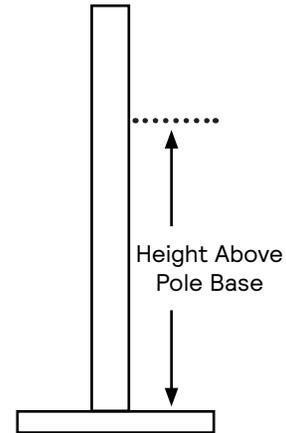
# Poles Straight Round Aluminum - Cast Base

## Orientation Information

Factory installed options and accessories



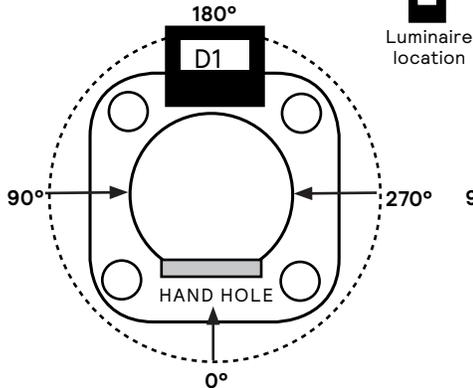
For Factory Installed Options and Accessories, Specify Orientation from Hand Hole and Height Above Pole Base Where Required.



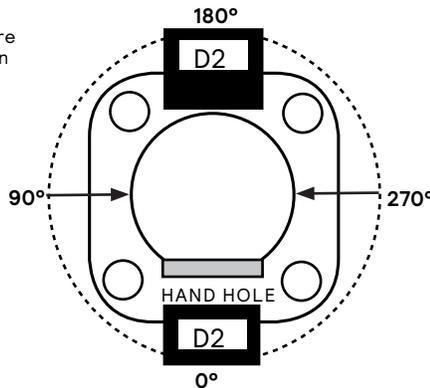
Orientation is measured clockwise from the Hand Hole Center.

## Standard arm mount luminaire orientation

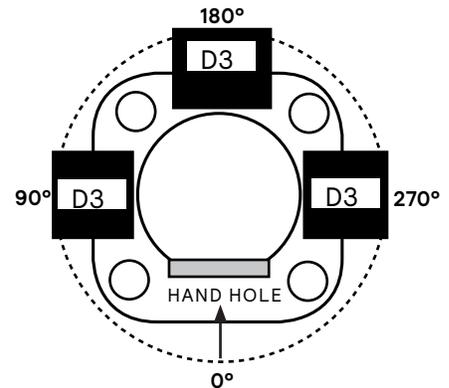
D1 Drilled for Single Luminaire



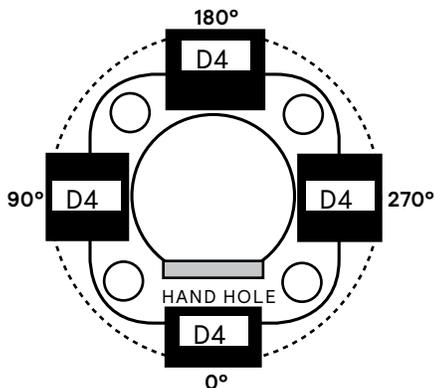
D2 Drilled for 2 Luminaires at 180°



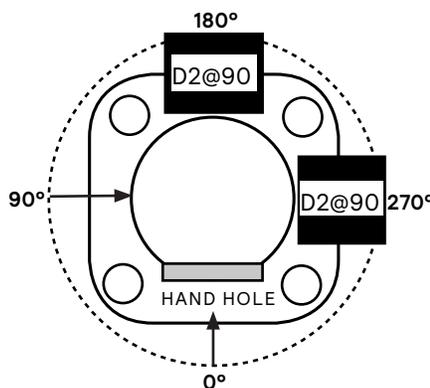
D3 Drilled for 3 Luminaires @ 90°



D4 Drilled for 4 Luminaires at 90°



D2@90 Drilled for 2 Luminaires at 90°



D3@120 Drilled for 3 Luminaires at 120°

