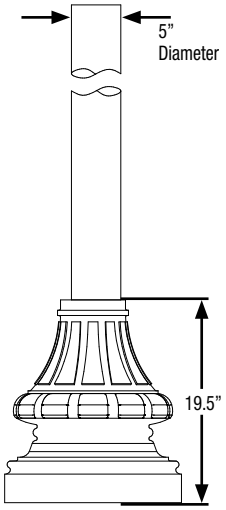
RSA-B-CENB SERIES POLES
ROUND STRAIGHT ALUMINUM

Cat.#	
Job	Type

BEACON design . performance . technology

Approvals



APPLICATIONS

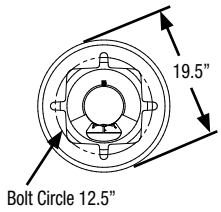
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

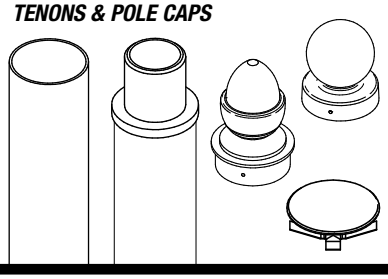
- SHAFT: One-piece straight aluminum with fluted or smooth cross section; Extruded shafts of 6061-T6 aluminum in 3/16" or 1/4" thickness. Decorative base of 356 cast aluminum.
- POLE CAP OR FINALS: Cap or decorative finials available for side mounted luminaires. Open top or tenons provided for post top mounted luminaires.
- HAND HOLE: Hand hole provided in cast base; Mounting provisions for grounding lug located behind cover
- ANCHOR BOLTS: Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

FINISH

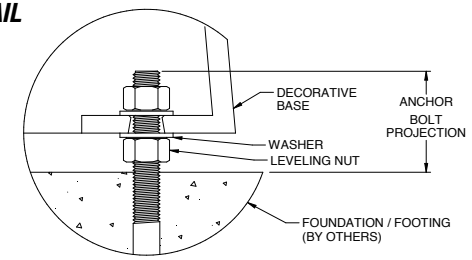
- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in twelve standard colors; Custom colors available; RAL number preferable.



TENONS & POLE CAPS



BASE DETAIL



ORDERING EXAMPLE:

RSA-B-CENB - S/F - 16 - 50 - A/B/C - 2L - B3 - DBT - VM2

SERIES	STYLE	HEIGHT	SHAFT	THICKNESS
RSA-B-CENB Round Straight Aluminum Pole Beacon	**S** Smooth **F** Fluted	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix

MOUNTING	
1	Single arm mount
2	Two fixtures at 180˚
2L	Two fixtures at 90˚
3T	Three fixtures at 90˚
3Y	Three at 120˚
4	Four fixtures at 90˚
OT	Open top (includes pole cap)
TN3	Tenon 3 x 3
TN4	Tenon 3 x 4
TN5	Tenon 4 x 5
TN8	Tenon 4 x 8
ARC	Acorn Finial
BAL	Ball Finial
CAP	Cap

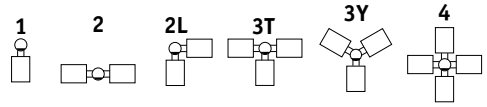
DRILL PATTERN	
B1	Cruzer
B3	VP-L
B4	VP-S

FINISH	
DB	Dark Bronze Textured
BL	Black Textured
WH	White Textured
PS	Platinum Silver
GYS	Light Gray Smooth
BZT	Bronze Textured
BBT	Basic Black Textured
CC	Custom Color

OPTIONS	
GFI[1]	20 Amp GFCI Receptacle and Cover
EHH[1]	Extra Handhole
C05[1]	.5" Coupling
C07[1]	.75" Coupling
C20[1]	2" Coupling
VM2	2nd mode vibration damper
LAB	Less Anchor Bolts

MOUNTING ORIENTATION

Denotes handhole location



***ACCESSORIES*- Order Separately**

Catalog Number	Description
VM2SXX	2nd mode vibration damper

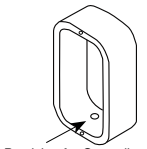
1 Specify option location using logic found on page 2 **(Option Orientation)**

ORDERING INFORMATION Cont.

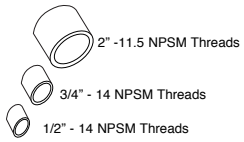
Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (suggested)	Bolt Square	Base Plate Size	Anchor Bolt Size	Bolt Projection	Pole weight (lbs)
	Feet	Meters								
RSA-B-CENB-S-10-50-B	10	3.0	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	85
RSA-B-CENB-S-12-50-B	12	3.7	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	92
RSA-B-CENB-S-14-50-B	14	4.3	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	98
RSA-B-CENB-S-16-50-B	16	4.9	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	105
RSA-B-CENB-S-18-50-B	18	5.5	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	112
RSA-B-CENB-S-20-50-B	20	6.1	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	118
RSA-B-CENB-S-22-50-B	22	6.7	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	125
RSA-B-CENB-S-24-50-B	24	7.3	5" Round	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	132
RSA-B-CENB-S-10-50-C	10	3.0	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	94
RSA-B-CENB-S-12-50-C	12	3.7	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	103
RSA-B-CENB-S-14-50-C	14	4.3	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	111
RSA-B-CENB-S-16-50-C	16	4.9	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	120
RSA-B-CENB-S-18-50-C	18	5.5	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	129
RSA-B-CENB-S-20-50-C	20	6.1	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	138
RSA-B-CENB-S-22-50-C	22	6.7	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	146
RSA-B-CENB-S-24-50-C	24	7.3	5" Round	0.25"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	155
RSA-B-CENB-F-10-50-B	10	3.0	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	86
RSA-B-CENB-F-12-50-B	12	3.7	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	93
RSA-B-CENB-F-14-50-B	14	4.3	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	100
RSA-B-CENB-F-16-50-B	16	4.9	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	107
RSA-B-CENB-F-18-50-B	18	5.5	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	113
RSA-B-CENB-F-20-50-B	20	6.1	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	120
RSA-B-CENB-F-22-50-B	22	6.7	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	127
RSA-B-CENB-F-24-50-B	24	7.3	5" Fluted	0.188"	12-1/2"	8.84"	17" Dia x 19-1/2" Tall	3/4 x 30 x 4	3-1/2"	134

NOTE Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

EHH - EXTRA HANDHOLE



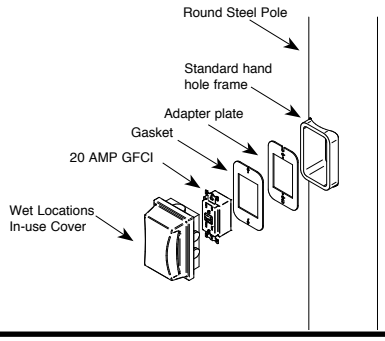
C05 - C07 - C20 - COUPLING



VM2 - VIBRATION DAMPER 2ND MODE

Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

GFI – 20 AMP GFCI RECEPTACLE & COVER



OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: **RSA-CENB-F-16-50-B-TN3-DBT** (.5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

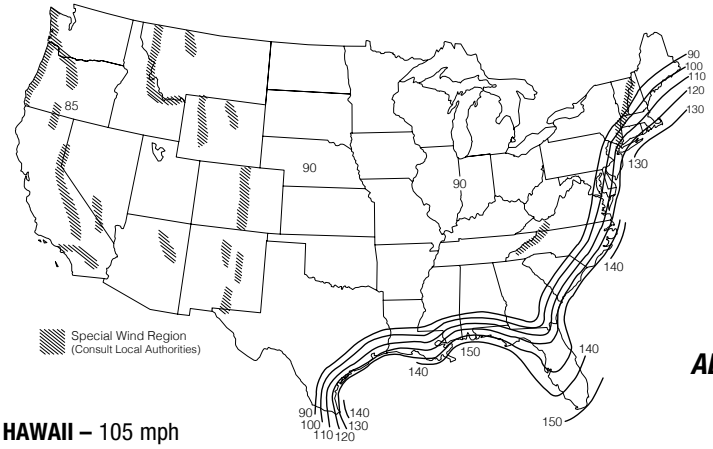
VM2SXX - VIBRATION DAMPER 2ND MODE

Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2S08 – 8'
VM2S12 – 12'
VM2S16 – 16'
VM2S20 – 20'
VM2S24 – 24'

For more information about pole vibration and vibration dampers, please consult http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
Due to our continued efforts to improve our products, product specifications are subject to change without notice.

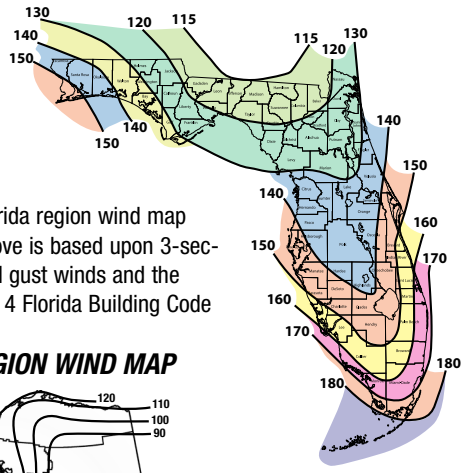
ASCE7-05 WIND MAP



HAWAII – 105 mph
PUERTO RICO – 145 mph

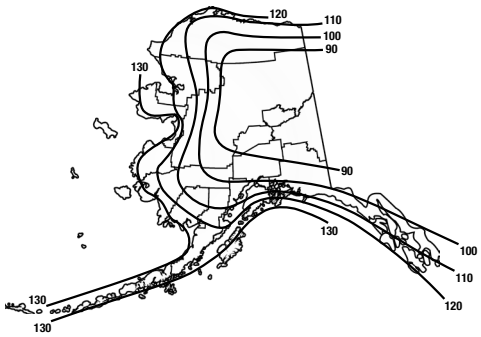
***PRINTED WITH PERMISSION FROM ASCE**

FLORIDA REGION WIND MAP



- Florida region wind map above is based upon 3-second gust winds and the 2014 Florida Building Code

ALASKA REGION WIND MAP



ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds										
Catalog Number	**85**	**90**	**100**	**105**	**110**	**120**	**130**	**140**	**145**	**150**
RSA-B-CENB-S-10-50-B	25.0	25.0	20.3	18.5	16.9	14.2	12.1	10.4	9.7	9.1
RSA-B-CENB-S-12-50-B	21.7	19.3	15.6	14.2	12.9	10.8	9.2	7.9	7.3	6.8
RSA-B-CENB-S-14-50-B	17.2	15.2	12.2	11.1	10.1	8.4	7.1	6.1	5.7	5.3
RSA-B-CENB-S-16-50-B	13.9	12.2	9.7	8.8	8.0	6.6	5.6	4.7	4.4	4.1
RSA-B-CENB-S-18-50-B	11.1	9.7	7.6	6.9	6.2	5.1	4.3	3.6	3.3	3.0
RSA-B-CENB-S-20-50-B	8.8	7.6	5.9	5.2	4.7	3.8	3.2	2.6	2.4	2.2
RSA-B-CENB-S-22-50-B	7.0	5.9	4.4	3.9	3.5	2.8	2.2	1.8	1.6	1.5
RSA-B-CENB-S-24-50-B	5.4	4.4	3.2	2.8	2.4	1.9	1.4	1.1	1.0	0.8
RSA-B-CENB-S-10-50-C	25.0	25.0	25.0	24.1	22.0	18.6	15.9	13.7	12.8	11.9
RSA-B-CENB-S-12-50-C	25.0	25.0	20.5	18.7	17.0	14.3	12.2	10.5	9.8	9.1
RSA-B-CENB-S-14-50-C	22.8	20.2	16.4	14.9	13.5	11.4	9.7	8.3	7.7	7.2
RSA-B-CENB-S-16-50-C	18.6	16.5	13.2	12.0	10.9	9.1	7.7	6.6	6.1	5.7
RSA-B-CENB-S-18-50-C	15.2	13.4	10.6	9.6	8.7	7.3	6.1	5.2	4.8	4.5
RSA-B-CENB-S-20-50-C	12.4	10.8	8.5	7.6	6.9	5.7	4.8	4.0	3.7	3.4
RSA-B-CENB-S-22-50-C	10.0	8.6	6.7	6.0	5.4	4.4	3.6	3.0	2.8	2.5
RSA-B-CENB-S-24-50-C	8.1	6.9	5.2	4.6	4.1	3.3	2.7	2.2	2.0	1.8
RSA-B-CENB-F-10-50-B	25.0	25.0	25.0	23.7	21.5	17.9	15.1	12.8	11.8	10.9
RSA-B-CENB-F-12-50-B	25.0	25.0	20.2	18.2	16.4	13.5	11.2	9.4	8.6	7.9
RSA-B-CENB-F-14-50-B	22.5	20.0	15.9	14.3	12.8	10.4	8.5	6.9	6.3	5.7
RSA-B-CENB-F-16-50-B	18.4	16.2	12.7	11.3	10.1	8.0	6.4	5.0	4.5	4.0
RSA-B-CENB-F-18-50-B	14.9	13.1	10.1	8.8	7.8	6.0	4.6	3.4	2.9	2.5
RSA-B-CENB-F-20-50-B	12.0	10.4	7.8	6.8	5.9	4.3	3.1	2.1	1.6	1.3
RSA-B-CENB-F-22-50-B	9.7	8.3	6.0	5.1	4.3	2.9	1.8	0.9	0.5	NR
RSA-B-CENB-F-24-50-B	7.7	6.5	4.5	3.6	2.9	1.7	0.7	NR	NR	NR

Florida Building Code 2014 EPA Load Rating - 3 second gust wind speeds								
Catalog Number	**115**	**120**	**130**	**140**	**150**	**160**	**170**	**180**
RSA-B-CENB-S-10-50-B	21.0	19.3	16.3	14.7	12.7	11.1	9.8	8.6
RSA-B-CENB-S-12-50-B	16.1	14.7	12.3	11.3	9.8	8.4	7.3	6.4
RSA-B-CENB-S-14-50-B	12.5	11.4	9.4	8.9	7.6	6.5	5.6	4.8
RSA-B-CENB-S-16-50-B	9.7	8.7	7.0	6.5	5.9	5.0	4.2	3.6
RSA-B-CENB-S-18-50-B	7.4	6.6	5.1	4.8	4.5	3.7	3.1	2.5
RSA-B-CENB-S-20-50-B	5.6	4.8	3.9	3.7	3.4	2.7	2.1	1.6
RSA-B-CENB-S-22-50-B	4.0	3.4	2.9	2.7	2.5	1.9	1.3	0.9
RSA-B-CENB-S-24-50-B	2.7	2.1	2.0	1.8	1.7	1.1	0.7	NR
RSA-B-CENB-S-10-50-C	25.0	25.0	21.5	19.2	16.7	14.6	12.9	11.4
RSA-B-CENB-S-12-50-C	21.3	19.5	16.4	14.9	12.9	11.2	9.8	8.6
RSA-B-CENB-S-14-50-C	16.9	15.4	12.8	12.0	10.3	8.9	7.7	6.7
RSA-B-CENB-S-16-50-C	13.4	12.1	10.0	9.4	8.2	7.0	6.0	5.1
RSA-B-CENB-S-18-50-C	10.5	9.5	7.6	7.0	6.4	5.4	4.6	3.9
RSA-B-CENB-S-20-50-C	8.3	7.3	6.0	5.5	5.1	4.2	3.4	2.8
RSA-B-CENB-S-22-50-C	6.4	5.5	4.8	4.3	3.9	3.1	2.5	1.9
RSA-B-CENB-S-24-50-C	4.8	4.0	3.8	3.3	2.9	2.2	1.7	1.2
RSA-B-CENB-F-10-50-B	21.1	19.3	16.3	13.9	11.9	10.3	8.9	7.8
RSA-B-CENB-F-12-50-B	16.1	14.7	12.3	10.3	8.7	7.4	6.3	5.4
RSA-B-CENB-F-14-50-B	12.5	11.4	9.4	7.7	6.4	5.3	4.4	3.6
RSA-B-CENB-F-16-50-B	9.7	8.7	7.0	5.7	4.5	3.6	2.8	2.1
RSA-B-CENB-F-18-50-B	7.4	6.6	5.1	3.9	3.0	2.2	1.5	0.9
RSA-B-CENB-F-20-50-B	5.6	4.8	3.6	2.5	1.7	1.0	NR	NR
RSA-B-CENB-F-22-50-B	4.0	3.4	2.2	1.3	0.6	NR	NR	NR
RSA-B-CENB-F-24-50-B	2.7	2.1	1.1	NR	NR	NR	NR	NR

NOTES

Wind-speed Website disclaimer:
Hubbell Lighting has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Hubbell Lighting has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Hubbell Lighting Inc. does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. http://windspeed.atcouncil.org

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. http://cdn.spauldinglighting.com/content/products/literature/literature_files/Pole_Wind_Induced_Flyer_HLOI0022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.