# RATIO

## Luminaire / Pole Combination

STOCK SHIPMENT PROGRAM

# One of our most popular area lights paired with our most popular poles!

## RATIO Series Luminaire

- Two Sizes Up to 21,000 Lumens
- Single & Double 180 deg. Configurations 4000K CCT (70 CRI)
- Type III & IV Distributions
- Dark Bronze Powder Paint (textured)

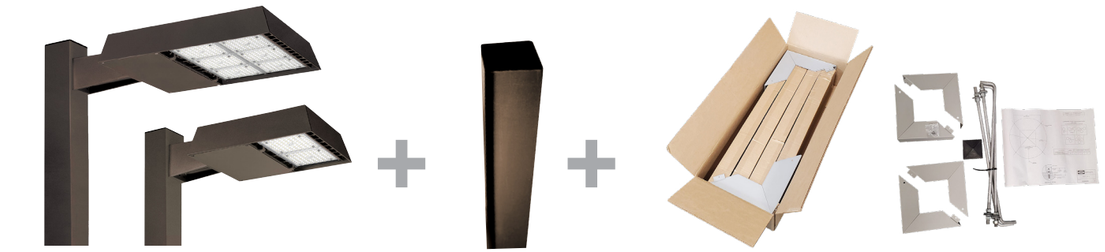
### SSS Series Poles

- Square Straight Steel Construction
- 4" Square x 0.125" Wall Thickness
- 20' and 25' Lengths
- Pole Base Accommodates 8"-10" Bolt Circles using Four 3/4" Diameter Anchor Bolts
- Dark Bronze Powder Paint (textured)
- Optional Vibration Damper Available as Accessory

### Stock Shipments

- All Product Manufactured and Shipped From Regional Distribution Centers
- Consolidated Shipment – Everything Arrives On One Truck!
- Anchor Bolts, Templates, Base Covers and Pole Caps all in One Box for Ease of Job Site Installation

## Complete Fixture, Pole, Anchor Bolts/Base Covers, Pole Caps and Template



## Ordering Information

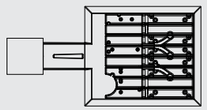
| Catalog Number | Pole | Single or Double Head | Fixture | Lumens | Wattage | Distribution | CCT/CRI | Mounting | Finish |
|---|---|---|---|---|---|---|---|---|---|
| **RAR1-100-4K7-3-S20** | **20' Square Straight Steel** | Single Head | **RAR1-100-4K-3** | 12,000 | 100W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-4W-S20** | **20' Square Straight Steel** | Single Head | **RAR1-100-4K-4W** | 12,000 | 100W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-3-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR1-100-4K-3** | 12,000 | 100W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-4W-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR1-100-4K-4W** | 12,000 | 100W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-3-S25** | **25' Square Straight Steel** | Single Head | **RAR1-100-4K-3** | 12,000 | 100W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-4W-S25** | **25' Square Straight Steel** | Single Head | **RAR1-100-4K-4W** | 12,000 | 100W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-3-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR1-100-4K-3** | 12,000 | 100W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-100-4K7-4W-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR1-100-4K-4W** | 12,000 | 100W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-3-S20** | **20' Square Straight Steel** | Single Head | **RAR1-135-4K-3** | 18,000 | 135W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-4W-S20** | **20' Square Straight Steel** | Single Head | **RAR1-135-4K-4W** | 18,000 | 135W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-3-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR1-135-4K-3** | 18,000 | 135W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-4W-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR1-135-4K-4W** | 18,000 | 135W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-3-S25** | **25' Square Straight Steel** | Single Head | **RAR1-135-4K-3** | 18,000 | 135W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-4W-S25** | **25' Square Straight Steel** | Single Head | **RAR1-135-4K-4W** | 18,000 | 135W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-3-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR1-135-4K-3** | 18,000 | 135W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR1-135-4K7-4W-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR1-135-4K-4W** | 18,000 | 135W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-3-S20** | **20' Square Straight Steel** | Single Head | **RAR2-165-4K-3** | 21,000 | 165W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-4W-S20** | **20' Square Straight Steel** | Single Head | **RAR2-165-4K-4W** | 21,000 | 165W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-3-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR2-165-4K-3** | 21,000 | 165W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-4W-S20-2X** | **20' Square Straight Steel** | Double Head (180°) | **RAR2-165-4K-4W** | 21,000 | 165W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-3-S25** | **25' Square Straight Steel** | Single Head | **RAR2-165-4K-3** | 21,000 | 165W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-4W-S25** | **25' Square Straight Steel** | Single Head | **RAR2-165-4K-4W** | 21,000 | 165W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-3-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR2-165-4K-3** | 21,000 | 165W | Type 3 | 4000K/70CRI | Square Arm | Dark Bronze |
| **RAR2-165-4K7-4W-S25-2X** | **25' Square Straight Steel** | Double Head (180°) | **RAR2-165-4K-4W** | 21,000 | 165W | Type 4W | 4000K/70CRI | Square Arm | Dark Bronze |
| **SSSH-20-40-STK** | **20' Square Straight Steel** | Pole Only | Not Included | | | | | | |
| **SSSH-25-40-STK** | **25' Square Straight Steel** | Pole Only | Not Included | | | | | | |
| **SSSH-STK-4-KIT** | | Kit Only | Not Included | | | | | | |

## Accessories

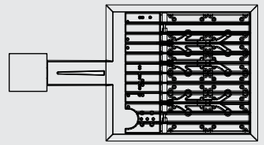
| Catalog Number | Description |
|---|---|
| VMI4DB | Vibration Dampener, mounts to top of pole for reduced vibration |

## Performance Data

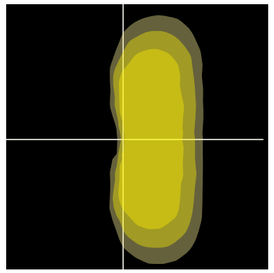
### Single Configurations

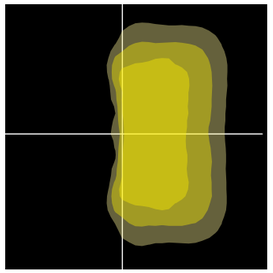


RAR1 – EPA 0.45ft²

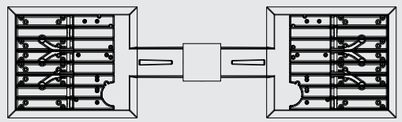


RAR2 – EPA 0.61ft²

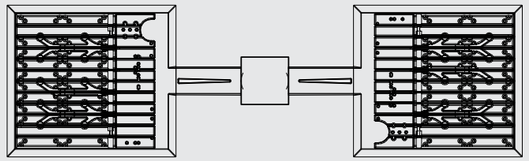


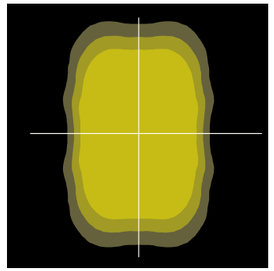

### Double Configurations

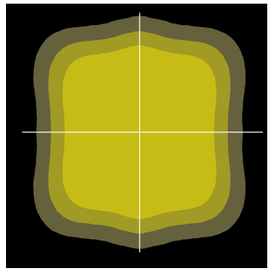


RAR1 – EPA 0.90ft²



RAR2 – EPA 1.22ft²



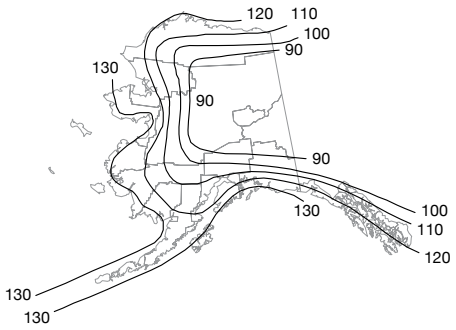
| Standard ASCE7-05 Wind Map | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 85 MPH | | 90 MPH | | 100 MPH | | 105 MPH | | 110 MPH | | 120 MPH | | 130 MPH | | 140 MPH | | 145 MPH | |
| Pole Height (4"Sq x 0.125" wall thickness) | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' |
| Allowable EPAs (ft/sq) | 12.7 | 7.3 | 10.9 | 5.9 | 7.9 | 3.8 | 6.9 | 2.9 | 5.9 | 2.1 | 4.2 | 0.8 | 2.8 | NR | 1.7 | NR | 1.3 | NR |
| Ratio, single - RAR Series | | | | | | | | | | | | | | NR | | NR | | NR |
| Ratio, 2@180 - RAR Series | | | | | | | | | | | | | | NR | | NR | | NR |

| Florida Region Wind Map (2017 Building Code) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 115 MPH Zone | | 120 MPH Zone | | 130 MPH Zone | | 140 MPH Zone | | 150 MPH Zone | | 160 MPH Zone | | 170 MPH Zone | | 180 MPH Zone | |
| Pole Height (4"Sq x 0.125" wall thickness) | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' | 20' | 25' |
| Allowable EPAs (ft/sq) | 13.6 | 7.4 | 11.9 | 6.2 | 9.2 | 4.1 | 7.1 | 2.5 | 5.3 | 1.1 | 3.9 | NR | 2.7 | NR | 1.7 | NR |
| Ratio, single - RAR Series | | | | | | | | | | | | NR | | NR | | NR |
| Ratio, 2@180 - RAR Series | | | | | | | | | | | | NR | | NR | | NR |

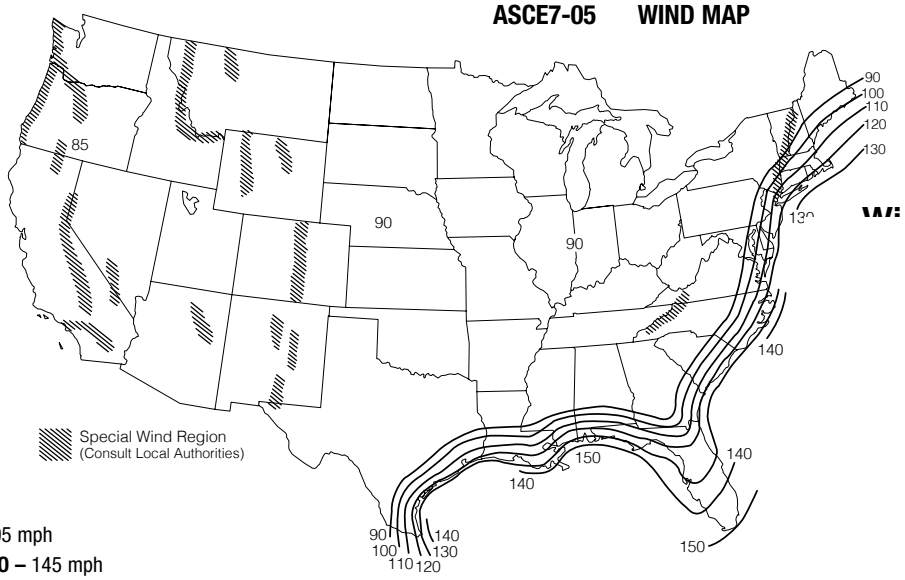
Acceptable | Exceeds Allowable Pole EPA | Not Recommended

Florida Building Code utilizes a different calculation method than ASCE, which results in different allowable EPAs. Consult your local authorities to determine which standard to use for your project

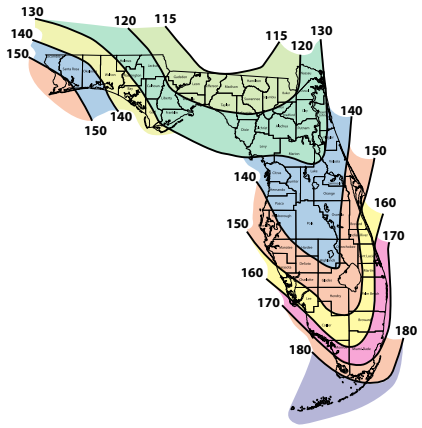
**Notes:** The **VM14DB**, vibration damper, is available for initial installation or can be installed after the poles are erected should vibration prove to be a problem.
*Consult the complete list of pole notes on the pole specification sheets located on the Hubbell Lighting web site.




## ASCE7-05 WIND MAP




**HAWAII –** 105 mph
**PUERTO RICO –** 145 mph




## **FLORIDA REGION WIND MAP** (2017 FLORIDA BUILDING CODE)

- Florida region wind map above is based upon 3-second gust winds and the 2017 Florida Building Code

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