

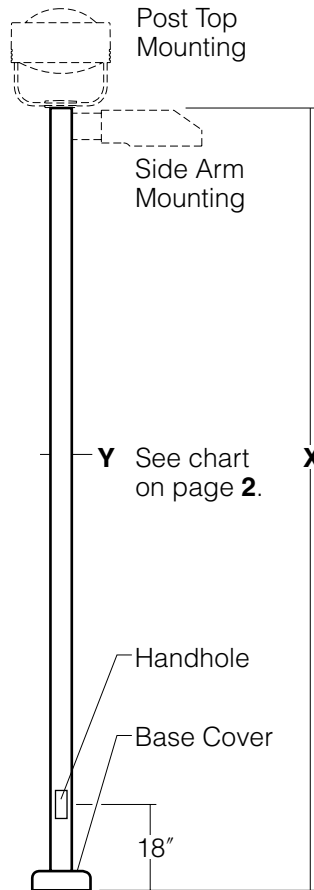
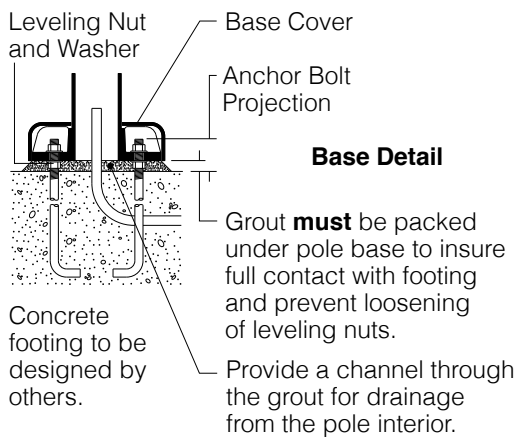
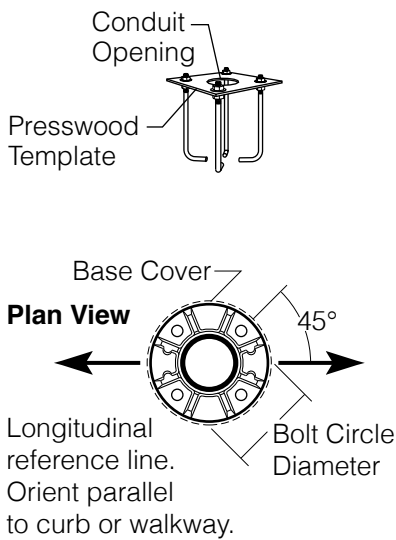
**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

Pole	/	/	/	/	/
	Mounting	Structural Luminaire Option	Finish	Optional Hinged Base	Optional Duplex Receptacle
See page 2	See page 3		See page 4		

**Date:**  
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## Specifications



**Pole Construction:** Seamless round extruded aluminum tube of alloy 6061-T6, welded to top and bottom of aluminum base casting of alloy 356.

**Base Cover:** Base has a two-piece cast aluminum full cover of 319 alloy, secured by stainless steel screws.

**Pole Cap:** A flush-sided cast aluminum pole cap is provided for side arm mounted luminaires.

**Handhole:** 18" up from base, with a gasketed cover and ground lug. Poles with a 3<sup>3/8</sup>" O.D. include a handhole reinforcement casting welded in place.

**Anchor Bolts:** Four galvanized anchor bolts provided, complete with eight nuts, eight flat washers, and a presswood template.

**Vibration Dampener:** All poles 25' and above include an internally mounted, factory installed pendulum vibration dampener, with flush stainless steel socket head fasteners finished to match pole.

**Strength:** Poles will withstand wind loads as listed in chart (See page 2) when luminaires are mounted per fixture installation instructions.

**Finish:** Super TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating. Standard colors are Black, Dark Bronze, Light Gray, Graphite Platinum Silver, Titanium and White. Custom colors are available.

**CAUTION:** Installation of poles without luminaire(s) will compromise pole strength. Any accessories attached to pole, or other modifications will compromise pole strength and may result in pole failure.

**Maintenance:** A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.

**Certification:** Certified UL 1598 in accordance with Article 410 of ANSI/NFPA 70, National Electrical Code.



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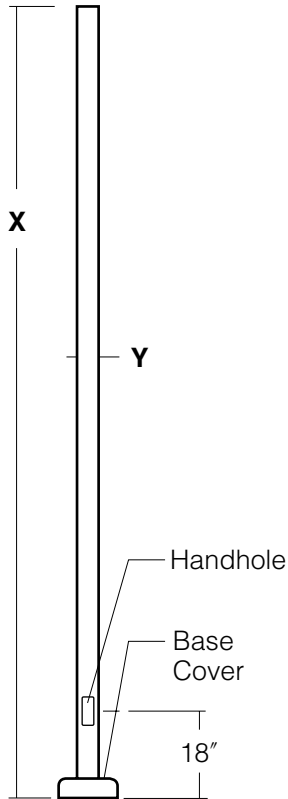
Job:

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## Standard Features

**NOTE:** All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 4).

Pole – Pole Catalog Number	X	Y	Wind Map Steady Wind								
			85	90	100	110	120	130	140	150	
<input type="checkbox"/> PRA8-4125	8'	4" x .125	13.06	11.49	10.46	8.39	6.81	5.65	4.80	4.13	
<input type="checkbox"/> PRA8-5125	8'	5" x .125	21.29	18.79	17.15	14.05	11.72	9.92	8.49	7.34	
<input type="checkbox"/> PRA10-34125	10'	3 3/8" x .125	6.58	5.70	7.71	6.05	4.79	3.88	3.27	2.78	
<input type="checkbox"/> PRA10-4125	10'	4" x .125	9.78	8.53	9.09	7.01	5.42	4.30	3.58	3.01	
<input type="checkbox"/> PRA10-5125	10'	5" x .125	16.21	14.21	12.90	10.51	8.72	7.34	6.25	5.38	
<input type="checkbox"/> PRA12-34188	12'	3 3/8" x .188	8.76	7.62	6.86	5.35	4.20	3.30	2.59	2.03	
<input type="checkbox"/> PRA12-4125	12'	4" x .125	7.48	6.44	5.75	4.37	3.32	2.59	2.14	1.78	
<input type="checkbox"/> PRA12-5125	12'	5" x .125	12.67	11.00	9.91	8.01	6.60	5.51	4.66	3.99	
<input type="checkbox"/> PRA12-6188	12'	6" x .188	32.89	29.22	27.04	22.20	18.53	15.69	13.44	11.64	
<input type="checkbox"/> PRA14-34188	14'	3 3/8" x .188	6.94	5.95	5.31	4.01	3.02	2.26	1.65	1.17	
<input type="checkbox"/> PRA14-4125	14'	4" x .125	5.73	4.84	4.25	3.06	2.16	1.57	1.24	0.98	
<input type="checkbox"/> PRA14-4188	14'	4" x .188	10.56	9.14	8.21	6.34	4.92	3.91	3.26	2.74	
<input type="checkbox"/> PRA14-5125	14'	5" x .125	10.01	8.58	7.64	6.10	4.98	4.11	3.44	2.91	
<input type="checkbox"/> PRA14-5188	14'	5" x .188	17.90	15.62	14.12	11.46	9.48	7.95	6.75	5.79	
<input type="checkbox"/> PRA14-6188	14'	6" x .188	27.19	24.11	22.37	18.31	15.24	12.87	11.00	9.49	
<input type="checkbox"/> PRA16-4188	16'	4" x .188	8.55	7.31	6.50	4.86	3.62	2.76	2.25	1.85	
<input type="checkbox"/> PRA16-5125	16'	5" x .125	7.90	6.65	5.83	4.57	3.67	2.98	2.45	2.03	
<input type="checkbox"/> PRA16-5188	16'	5" x .188	14.80	12.81	11.50	9.26	7.61	6.34	5.34	4.55	
<input type="checkbox"/> PRA16-6188	16'	6" x .188	22.77	20.16	18.75	15.29	12.69	10.68	9.09	7.82	
<input type="checkbox"/> PRA20-4188	19.5'	4" x .188	5.33	4.37	3.74	2.48	1.52	0.91	0.63	0.42	
<input type="checkbox"/> PRA20-5125	19.5'	5" x .125	4.50	3.54	2.90	2.11	1.56	1.16	0.85	0.62	
<input type="checkbox"/> PRA20-5188	19.5'	5" x .188	9.83	8.29	7.28	5.73	4.60	3.75	3.09	2.56	
<input type="checkbox"/> PRA20-6188	19.5'	6" x .188	15.69	13.81	12.95	10.46	8.59	7.16	6.03	5.14	
<input type="checkbox"/> PRA25-6188	25'	6" x .188	9.74	8.46	8.07	6.38	5.12	4.17	3.43	2.85	
<input type="checkbox"/> PRA30-6188	30'	6" x .188	5.61	4.74	4.69	3.54	2.71	2.08	1.60	1.23	
<input type="checkbox"/> PRA30-6250	30'	6" x .250	11.37	9.88	9.42	7.45	5.99	4.88	4.02	3.34	



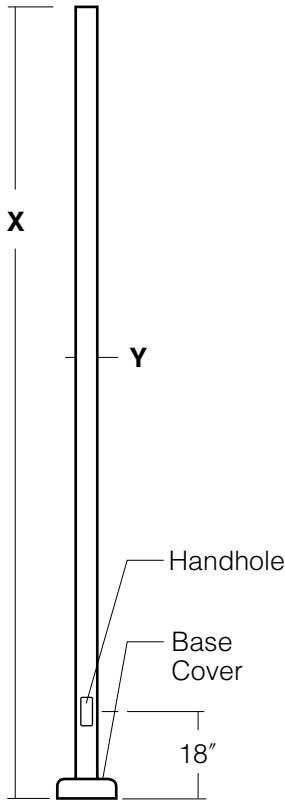
Type:

Job:

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## Standard Features

**NOTE:** All allowable pole and fixture EPAs are derived from the AASHTO standard. Responsibility lies with the specifier for correct pole selection based on local codes and standards for the job location. (See page 5).



### Anchor Base and Bolt Detail

Pole Height	Pole Diameter	Bolt Circle Dia.	Anchor Bolt Projection	Anchor Bolts Size	Base Cover Size	Conduit Opening
8'-14'	4"	8½"	3¼"	¾" x 15" + 3"	11⅞"	3" dia.
8'-14'	5"	8½"	3¼"	¾" x 30" + 4"	11⅞"	3" dia.
10'-14'	3⅜"	7"	3⅛"	¾" x 15" + 3"	10⅛"	2½" dia.
12'	6"	10½"	3⅜"	¾" x 30" + 4"	11⅞"	3" dia.
14'	6"	10½"	3¼"	¾" x 30" + 4"	11⅞"	3" dia.
16'-20'	4"-5"	8½"	3¼"	¾" x 30" + 4"	11⅞"	3" dia.
16'-20'	6"	10½"	3⅜"	¾" x 30" + 4"	14"	5" dia.
25'-30'	6"	10½"	3⅜"	¾" x 30" + 4"	14"	5" dia.

### Mounting

Plan Views: **Flush Mounts** **Side Arm**   
**Mounting<sup>1</sup>:**  FM  A  SA  B  SB  L  SL  T  ST  Y  SY  C  SC

**NOTE: Allowable Pole EPA** for jobsite wind conditions must be equal to or greater than fixture mount EPA. Please refer to Kim luminaire catalog for specific fixture.

<sup>1</sup>See luminaire drilling requirements in luminaire catalog.

#### Structural Luminaires *Only* - Examples

- TS:** Single Tension for small and large Structural - PRA20-5188SB-TS
- TD:** Double Tension for small and large Structural - PRA20-5188B-TD
- TR:** Truss for small and large Structural - PRA20-5188SB-TR
- XTS:** Single Tension for 1000W Structural - PRA20-5188B-XTS
- XTD:** Double Tension for 1000W Structural - PRA20-5188B-XTD
- XTR:** Truss for 1000W Structural - PRA20-5188B-XTR

Type:

Job:

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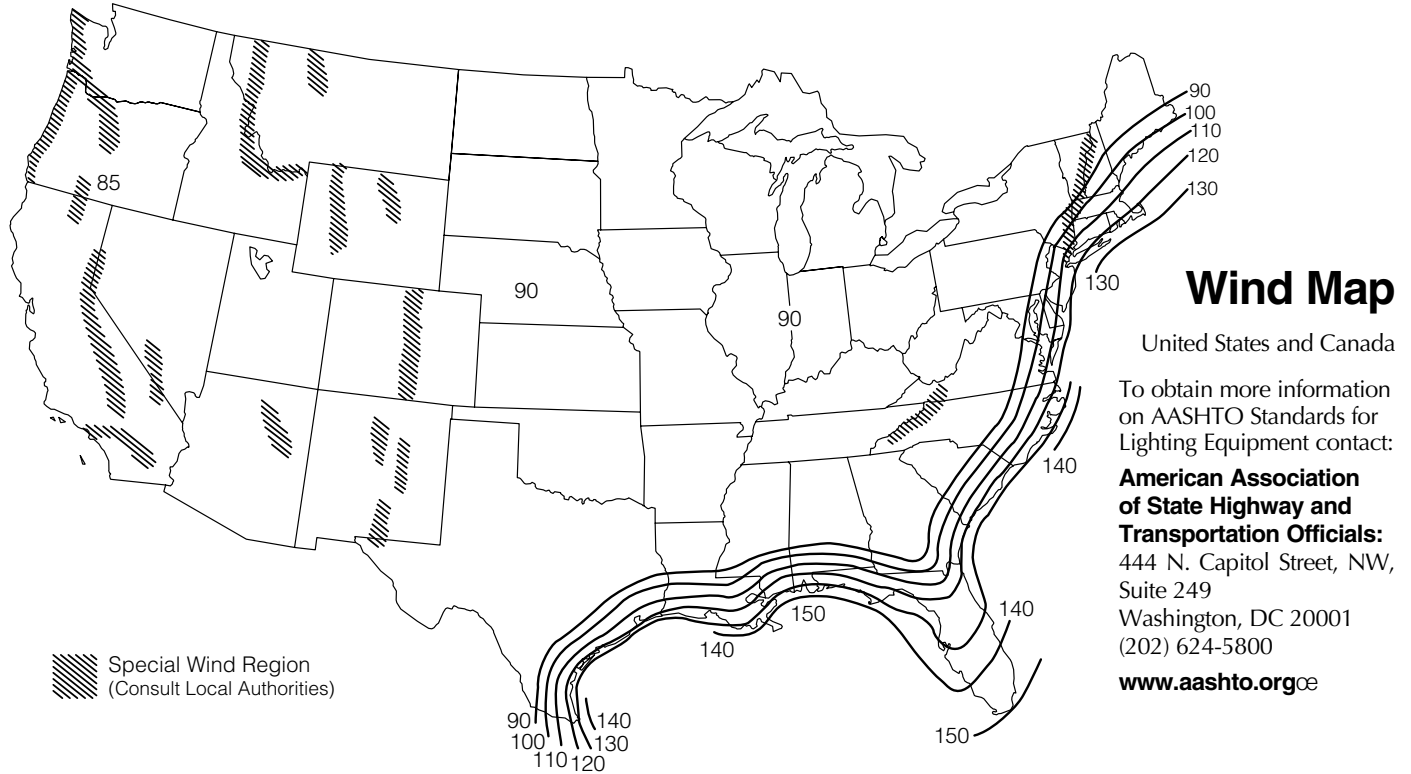
## Standard and Optional Features

<p><b>Finish</b>                  TGIC powder coat paint over a titanated zirconium conversion coating.</p>	<p>Color:    Black    Dark Bronze    Light Gray    Graphite    Platinum Silver    Titanium    White    Custom Color<sup>1</sup></p> <p>Cat. No.:   <input type="checkbox"/> <b>BL</b>    <input type="checkbox"/> <b>DB</b>    <input type="checkbox"/> <b>LG</b>    <input type="checkbox"/> <b>GT</b>    <input type="checkbox"/> <b>PS</b> <input type="checkbox"/>    <input type="checkbox"/> <b>TT</b>    <input type="checkbox"/> <b>WH</b>    <input type="checkbox"/> <b>CC</b></p> <p><sup>1</sup>Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____</p>
<p><b>Optional Hinged Base</b>                  Cat. No.   <input type="checkbox"/> <b>HB-X1</b>                                <input type="checkbox"/> <b>HB-X2</b>                                <input type="checkbox"/> <b>HB-Y1</b>                                <input type="checkbox"/> <b>HB-Y2</b>                                <input type="checkbox"/> <b>No Option</b></p>	<p>Optional hinged base available for <b>FM</b>, <b>A</b>, and <b>B</b> mount poles up to <b>14 feet</b> only. The use of hinged bases requires some pre-planning so poles hinge in the right direction, as dictated by the surrounding environment.</p> <div style="text-align: center; margin: 10px 0;"> <p style="font-size: small;">Hinging Directions</p> </div> <p><b>NOTE:</b> For <b>FM</b> mount, use <b>HB-X1</b> base.</p>
<p><b>Optional Duplex Receptacle</b>                  Cat. No.   <input type="checkbox"/> <b>DR</b>                                <input type="checkbox"/> <b>DR-GFI</b>                                <input type="checkbox"/> <b>No Option</b></p>	<p>Mounted opposite the handhole, at 22½" from base of pole, in a cast aluminum box that is internally welded and sealed with a gasketed self-closing cover and locking bracket.</p> <p><b>Duplex Receptacle (DR)</b> rated 20A., 125V.  <b>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A., 125V.</p>

Type:

Job:

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## Wind Map

United States and Canada

To obtain more information on AASHTO Standards for Lighting Equipment contact:

**American Association of State Highway and Transportation Officials:**  
 444 N. Capitol Street, NW,  
 Suite 249  
 Washington, DC 20001  
 (202) 624-5800

[www.aashto.org](http://www.aashto.org)

### NOTES:

- Values are based on 50 year mean recurrence interval 30' above grade.
- Hawaii has an **105 mph** wind velocity.
- Puerto Rico has a **125 mph** wind velocity.
- Caution must be exercised in determining wind velocities in special wind areas such as:
  - Mountainous Regions
  - Areas surrounding the Great Lakes or other large bodies of water or open land.
  - Areas subject to extreme wind conditions, such as hurricanes, typhoons, cyclones, and tornadoes.
  - Areas adjacent to airports.
  - Any specific area with a known or suspected abnormally high intermittent wind condition caused by geography, adjacent structures, or other specific local conditions that may not be recorded in National Weather Service records.
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than fixture EPA. Responsibility lies with the specifier for correct pole selection based on AASHTO wind map and job location.
- The Wind Map is intended only as a general guide. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application.
- **CAUTION:** 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 AASHTO standards.
- Extreme Wind Events: Hurricanes, Typhoons, Cyclones, or Tornadoes expose poles to flying debris, wind shear, and other unpredictable aerodynamic forces not indicated by the wind velocity ratings.
- Pole Strength Limited Warranty: Standard, unmodified Kim lighting Poles installed as recommended, undamaged by corrosion, or lack of maintenance, shall withstand steady wind conditions as provided on page 2 (Allowable Pole EPA). Installation of poles without luminaires, or attachment of any unauthorized accessories to poles shall void this warranty.