

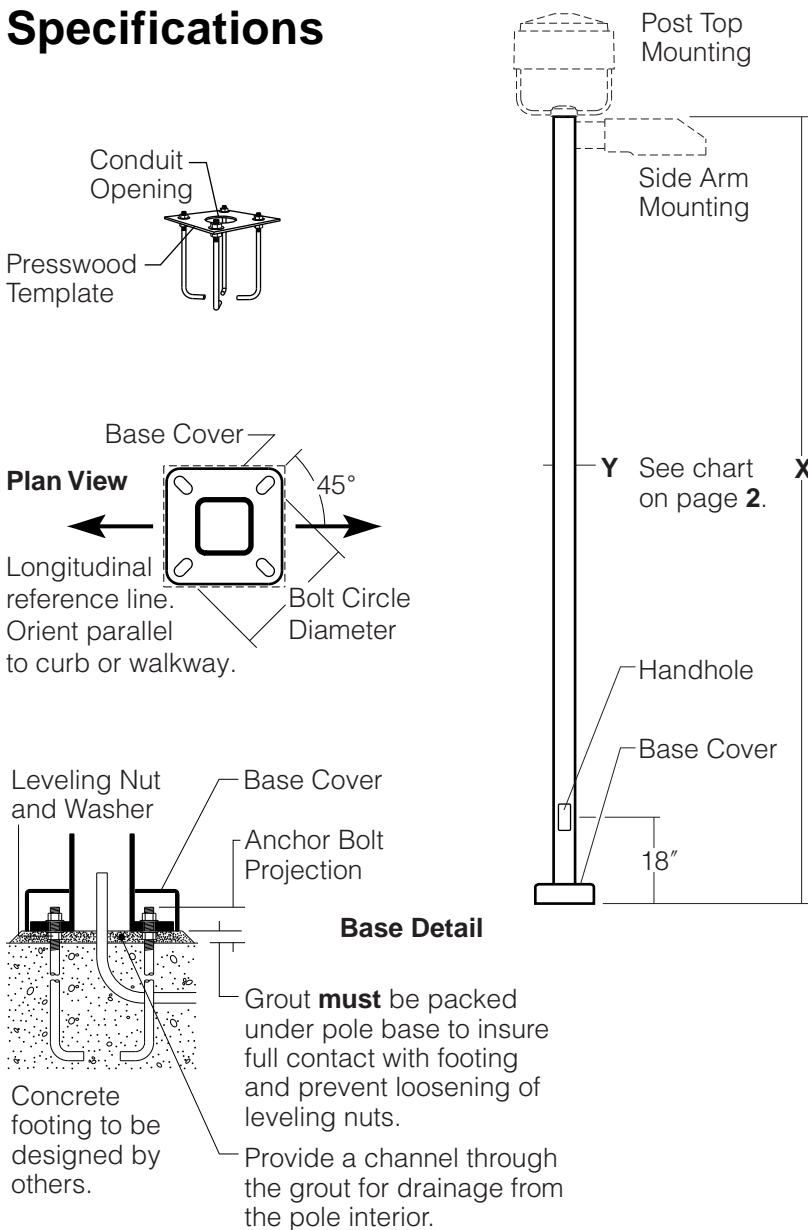
**Type:**  
**Job:**  
**Catalog number:**

**Approvals:**

| Pole Cat. No. | Mounting | Structural Luminaire Option | Finish     | Optional Duplex Receptacle |
|---------------|----------|-----------------------------|------------|----------------------------|
| _____         | _____    | _____                       | _____      | _____                      |
| See page 2    |          |                             | See page 4 |                            |

**Date:**  
**Page: 1 of 4**

## Specifications



**Pole Construction:** One-piece non-tapered square shaft of low carbon steel (ASTM-A500, Grade B, 46,000 PSI min. yield) with one flush-welded vertical seam. Shaft is welded to a flat steel anchor base (ASTM-36, 36,000 PSI min. yield).

**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. 2" x 4" handhole provided on poles up to 16'. Reinforced 3" x 6" handhole provided on poles 20' and taller.

**Anchor Bolts:** Four fully galvanized anchor bolts provided (ASTM-36, 36,000 PSI min. yield), complete with eight galvanized nuts, eight galvanized flat washers, and a presswood template.

**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, 2.5 mil nominal thickness. 5 stage steel pretreatment to include phosphoric acid etch, followed by iron phosphate bath and chromate sealer for corrosion resistance. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, and White. Custom colors are available.

**CAUTION:** Do not install poles without luminaires or strength guarantee is voided. Any unauthorized accessories secured to pole shall void strength guarantee.

**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.



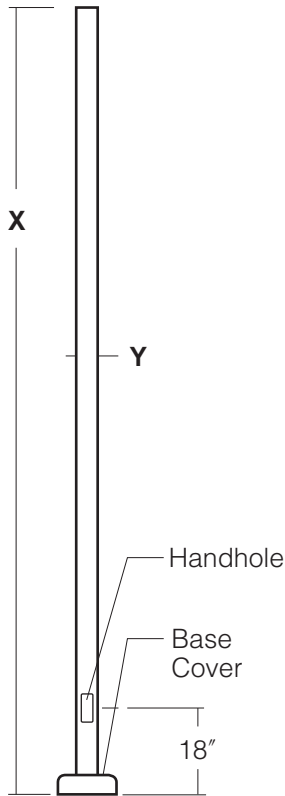
Type:

Job:

Page: 2 of 4

## 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 Catalog Number                 | X     | Y           | Allowable Pole EPA |       |       |       |       |       |       |       |
|-------------------------------------|-------|-------------|--------------------|-------|-------|-------|-------|-------|-------|-------|
|                                     |       |             | 85                 | 90    | 100   | 110   | 120   | 130   | 140   | 150   |
| <input type="checkbox"/> KSS10-4120 | 10'   | 4" x 11 ga. | 34.16              | 30.24 | 27.67 | 22.51 | 18.58 | 15.52 | 13.10 | 11.14 |
| <input type="checkbox"/> KSS12-4120 | 12'   | 4" x 11 ga. | 27.70              | 24.44 | 22.30 | 17.99 | 14.72 | 12.17 | 10.15 | 8.52  |
| <input type="checkbox"/> KSS14-4120 | 14'   | 4" x 11 ga. | 22.97              | 20.17 | 18.34 | 14.65 | 11.84 | 9.66  | 7.93  | 6.53  |
| <input type="checkbox"/> KSS16-4120 | 16'   | 4" x 11 ga. | 19.32              | 16.87 | 15.26 | 12.04 | 9.58  | 7.67  | 6.15  | 4.93  |
| <input type="checkbox"/> KSS20-4120 | 19.5' | 4" x 11 ga. | 13.78              | 11.90 | 10.66 | 8.16  | 6.27  | 4.80  | 3.63  | 2.68  |
| <input type="checkbox"/> KSS20-4180 | 19.5' | 4" x 7 ga.  | 21.36              | 18.65 | 16.87 | 13.30 | 10.59 | 8.48  | 6.80  | 5.45  |
| <input type="checkbox"/> KSS25-4120 | 25'   | 4" x 11 ga. | 8.55               | 7.11  | 6.16  | 4.26  | 2.61  | 1.69  | 0.80  | ---   |
| <input type="checkbox"/> KSS25-4180 | 25'   | 4" x 7 ga.  | 14.33              | 12.26 | 10.91 | 8.18  | 6.11  | 4.50  | 3.22  | 2.18  |
| <input type="checkbox"/> KSS25-5120 | 25'   | 5" x 11 ga. | 15.24              | 12.94 | 11.44 | 8.41  | 6.11  | 4.32  | 2.90  | 1.75  |
| <input type="checkbox"/> KSS25-5180 | 25'   | 5" x 7 ga.  | 24.71              | 21.40 | 19.22 | 14.84 | 11.52 | 8.93  | 6.87  | 5.21  |
| <input type="checkbox"/> KSS30-4180 | 30'   | 4" x 7 ga.  | 9.80               | 8.14  | 7.06  | 4.87  | 3.21  | 1.91  | ---   | ---   |
| <input type="checkbox"/> KSS30-5180 | 30'   | 5" x 7 ga.  | 17.71              | 15.05 | 13.30 | 9.79  | 7.12  | 5.04  | 3.40  | 2.07  |

### Anchor Base and Bolt Detail

| Pole Height | Pole Size | Bolt Circle DIA | Anchor Bolt Projection | Anchor Bolts Size | Base Cover Size | Conduit Opening |
|-------------|-----------|-----------------|------------------------|-------------------|-----------------|-----------------|
| 10'-25'     | 4"        | 7½"-8½"         | 3¾"                    | ¾" x 15" + 3"     | 8⅝" sq.         | 3" DIA          |
| 25'         | 5"        | 10"-12½"        | 3⅞"                    | ¾" x 30" + 4"     | 12⅝" sq.        | 4" DIA          |
| 30'         | 4"        | 7½"-8½"         | 3⅜"                    | ¾" x 30" + 4"     | 8⅝" sq.         | 3" DIA          |
| 30'         | 5"        | 10"-12½"        | 3⅞"                    | ¾" x 30" + 4"     | 12⅝" sq.        | 4" DIA.         |

### Mounting

**Flush Mount**     **Post Top**     **Side Arm**

**Plan Views:** 

**Mounting<sup>1</sup>:**     FM     PT     A  SA     B  SB     L  SL     T  ST     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 - KSS20-4120B-TS
- TD:** Double Tension for small and large Structural - KSS20-4120B-TD
- TR:** Truss for small and large Structural - KSS20-4120B-TR
- XTS:** Single Tension for 1000W Structural - KSS20-4120B-XTS
- XTD:** Double Tension for 1000W Structural - KSS20-4120B-XTD
- XTR:** Truss for 1000W Structural - KSS20-4120B-XTR

Type:

Job:

Page: 3 of 4

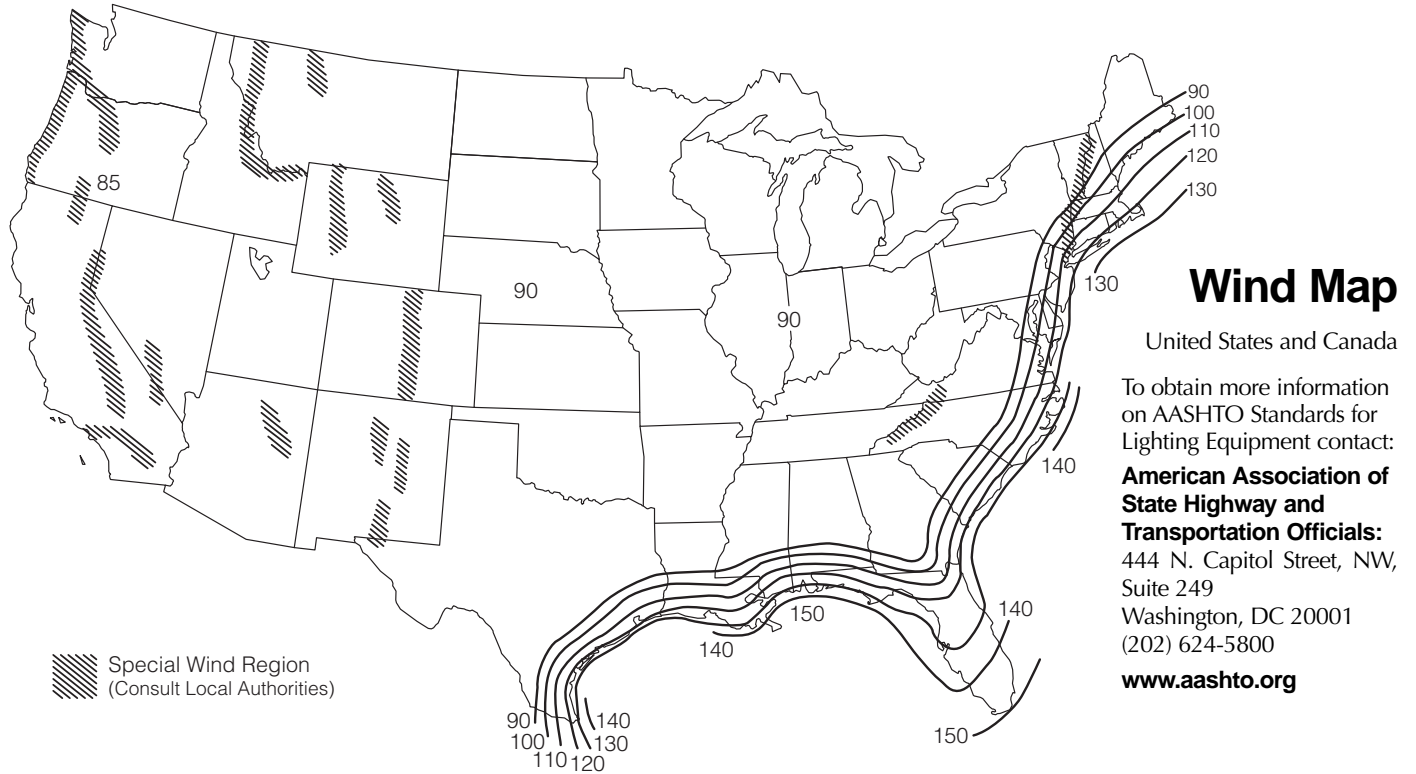
## Standard and Optional Features

|   |   |
|---|---|
| <p><b>Finish</b><br/>         Super TGIC powder coat paint over an iron phosphate bath, chromate sealed metal pretreatment.</p>   | <p>Color:    Black    Dark Bronze    Light Gray    Stealth Gray™    Platinum Silver    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>SG</b>       <input type="checkbox"/> <b>PS</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 Duplex Receptacle</b><br/>         Cat. No.    <input type="checkbox"/> <b>DR</b><br/>                           <input type="checkbox"/> <b>DR-GFI</b><br/>                           <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.<br/> <b>Duplex Receptacle with Ground Fault Circuit Interrupter (DR-GFI)</b> rated 20A., 125V.</p>  |

Type:

Job:

Page: 4 of 4



**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.