Reset Form

KIM LIGHTING

LTRA

Round Aluminum Tapered Pole

revision 10/8/08 • ltra.pdf

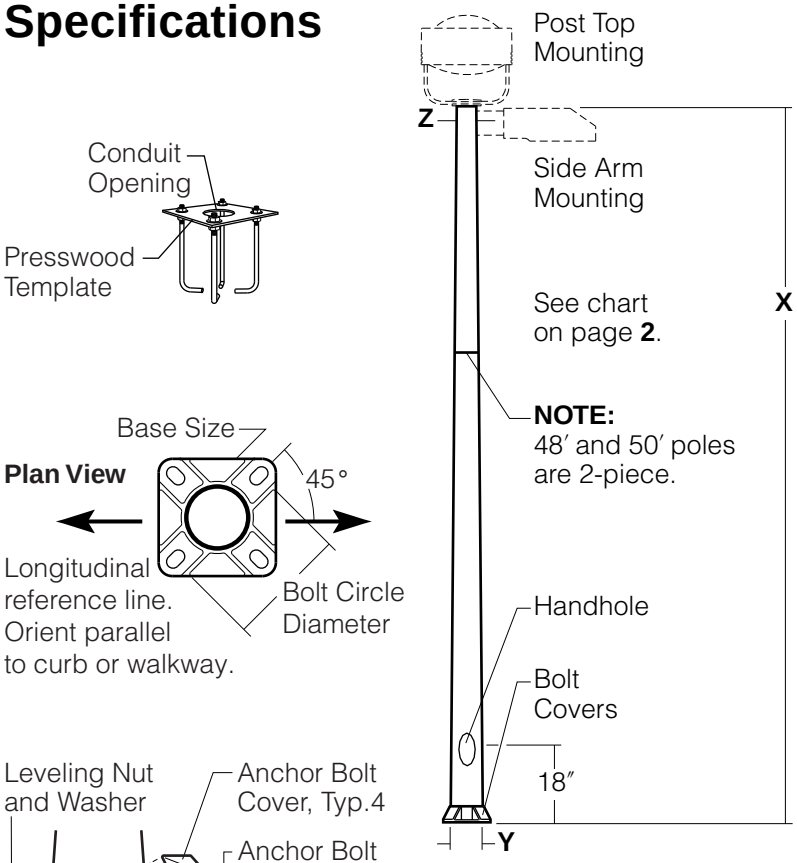
Type:
Job:
Catalog number:

	/		/		/	
Pole		Mounting		Structural Luminiare Option		Finish
See page 2			See page 3			

Approvals:

Date:
Page: 1 of 4

Specifications



Pole Construction: Tapered by spinning and coldworking a seamless one-piece extruded tube of aluminum alloy 6063-T6. After tapering, shaft is welded to a cast aluminum anchor base of alloy A356, heat-treated to T-6 temper, and rotary sand finished. Poles above 39′ include a flush field joint approximately 26½′ above base, with both sections taper spun.

Bolt Covers: Cast aluminum anchor bolt covers included.

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

Handhole: Reinforced handhole with a gasketed cover and ground lug provided, 18″ up from base. Cover mounts flush.

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

Vibration Dampener: Poles 20′ and above include a mechanically fastened internal pendulum vibration dampener.

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

Finish: Standard thermoset polyester powder coat paint over titanated zirconium conversion coating. Standard colors are Black, Dark Bronze, Light Gray, Stealth Gray™, Platinum Silver, 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.

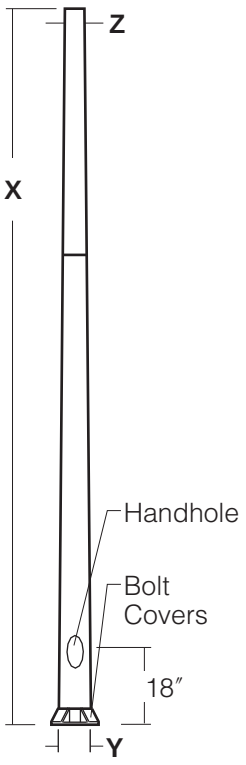
Maintenance: A regularly scheduled maintenance program must be established to insure the protective paint coating is intact, corrosion or structural damage has not occurred, and anchor bolt nuts are tight. Failure to do so could lead to pole collapse and serious personal injury.

HUBBELL LIGHTING, INC.

 • P.O. BOX 60080, CITY OF INDUSTRY, CA 91716-0080 • TEL: 626/968-5666 • FAX: 626/369-2695

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	Z	Allowable Pole EPA 85	90	100	110	120	130	140	Wind Map Steady Wind ↓ 150
☐ **LTRA16-6156**	16′	6″ x .156	4″	21.80	19.36	17.93	14.70	12.26	10.30	8.67	7.36
☐ **LTRA16-6188**	16′	6″ x .188	4″	26.32	23.38	21.64	17.77	14.83	12.49	10.56	9.01
☐ **LTRA20-5156**	20′	5″ x .156	3″	9.67	8.51	7.98	6.45	5.30	4.42	3.73	3.18
☐ **LTRA20-5188**	20′	5″ x .188	3″	12.01	10.59	9.89	8.03	6.63	5.55	4.70	4.03
☐ **LTRA20-6156**	20′	6″ x .156	4″	15.75	13.94	12.96	10.58	8.77	7.30	6.04	5.03
☐ **LTRA20-6188**	20′	6″ x .188	4″	19.23	17.04	15.82	12.94	10.76	8.99	7.50	6.30
☐ **LTRA25-6156**	25′	6″ x .156	4″	10.73	9.44	8.85	7.15	5.88	4.79	3.84	3.06
☐ **LTRA25-6188**	25′	6″ x .188	4″	13.39	11.82	11.04	8.96	7.39	6.08	4.95	4.03
☐ **LTRA25-7156**	25′	7″ x .156	4″	16.32	14.43	13.44	10.95	8.85	7.19	5.88	4.81
☐ **LTRA25-8156**	25′	8″ x .156	4½″	22.70	20.13	18.60	14.90	12.10	9.90	8.17	6.77
☐ **LTRA30-7156**	30′	7″ x .156	4″	11.90	10.47	9.81	7.93	6.26	4.93	3.87	3.02
☐ **LTRA30-8156**	30′	8″ x .156	4½″	17.06	15.09	13.96	11.00	8.75	6.99	5.60	4.48
☐ **LTRA30-8188**	30′	8″ x .188	4½″	21.03	18.62	17.31	13.69	11.01	8.92	7.26	5.92
☐ **LTRA30-8250**	30′	8″ x .250	4½″	28.43	25.23	23.30	18.72	15.23	12.52	10.36	8.63
☐ **LTRA35-8156**	35′	8″ x .156	4½″	13.01	11.45	10.63	8.17	6.30	4.84	3.69	2.75
☐ **LTRA35-8188**	35′	8″ x .188	4½″	16.30	14.38	13.33	10.40	8.17	6.44	5.06	3.95
☐ **LTRA35-8250**	35′	8″ x .250	4½″	22.44	19.86	18.37	14.57	11.68	9.42	7.64	6.20
☐ **LTRA35-10188**	35′	10″ x .188	6″	28.03	24.51	22.20	17.56	14.03	11.29	9.11	7.35
☐ **LTRA39-8188**	39′	8″ x .188	4½″	13.29	11.68	10.85	8.28	6.33	4.81	3.60	2.63
☐ **LTRA39-8250**	39′	8″ x .250	4½″	18.68	16.49	15.28	11.94	9.40	7.43	5.86	4.60
☐ **LTRA39-10188**	39′	10″ x .188	6″	23.51	20.43	18.40	14.33	11.23	8.82	6.91	5.37
☐ **LTRA39-10250**	39′	10″ x .250	6″	32.23	28.20	25.56	20.25	16.20	13.06	10.56	8.55
☐ **LTRA48-10250**	48′	10″ x .250	6″	22.78	19.65	17.59	13.46	10.31	7.87	5.93	4.36
☐ **LTRA50-10250**	50′	10″ x .250	6″	15.85	13.44	9.65	6.85	4.72	3.07	1.75	---

48′ and 50′ poles are 2-piece assemblies

Anchor Base and Bolt Detail

Pole Height	Y Pole Diameter	Bolt Circle DIA	Anchor Bolt Projection	Anchor Bolts Size	Base Size	Conduit Opening
20′	5″	9½″	3¼″	¾″ x 30″ + 4″	9.¼″ sq.	4½″ DIA
16′-25′	6″	9½″	3¼″	¾″ x 30″ + 4″	10.¼″ sq.	5″ DIA
25′ - 30′	7″	11″	3½″	¾″ x 30″ + 4″	10.¾″ sq.	6½″ DIA
25′ - 39′	8″	11½″	3½″	1″ x 36″ + 4″	11.⅝″ sq.	7½″ DIA
35′ - 48′	10″	14¾″	4¾″	1″ x 48″ + 4″	14.½″ sq.	9½″ DIA
50′	10″	14¾″	4¾″	1¼″ x 42″ + 6″	14.½″ sq.	9½″ DIA

Standard Features

Mounting

Plan Views: Flush Mount | Side Arm

Mounting[1]: ☐ **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.

[1]See luminaire drilling requirements in luminaire catalog.

Structural Luminaires *Only* - Examples

☐ **TS**:Single Tension for small and large Structural - LTRA20-5156B-TS
☐ **TD**:Double Tension for small and large Structural - LTRA20-5156B-TD
☐ **TR**:Truss for small and large Structural - LTRA20-5156B-TR
☐ **XTS**:Single Tension for 1000W Structural - LTRA20-5156B-XTS
☐ **XTD**:Double Tension for 1000W Structural - LTRA20-5156B-XTD
☐ **XTR**:Truss for 1000W Structural - LTRA20-5156B-XTR

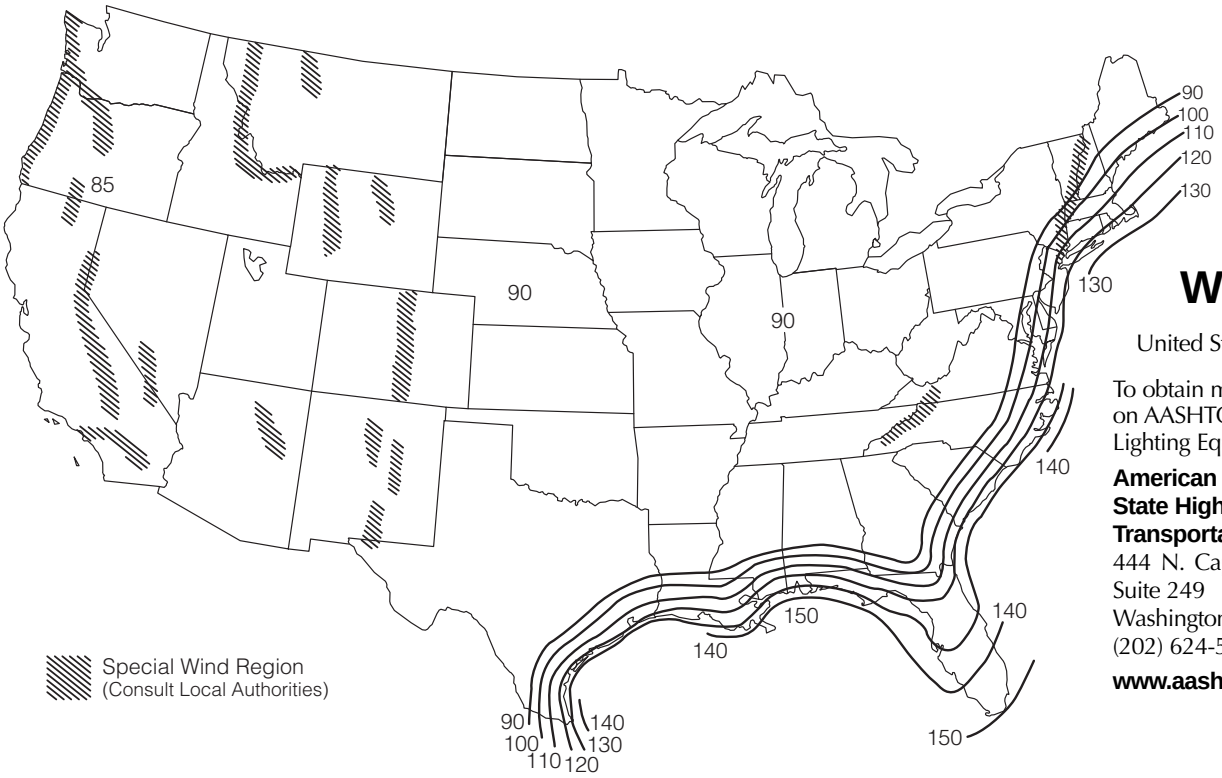
Finish

Standard thermoset polyester powder coat paint over titanated zirconium conversion coating.

Color: Black | Dark Bronze | Light Gray | Stealth Gray™ | Platinum Silver | White | Custom Color[2]

Cat. No.: ☐ **BL** ☐ **DB** ☐ **LG** ☐ **SG** ☐ **PS** ☐ **WH** ☐ **CC**

[2]Custom color subject to additional charges, minimum quantities and extended lead times. Consult representative. Custom color description: _____



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

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.