

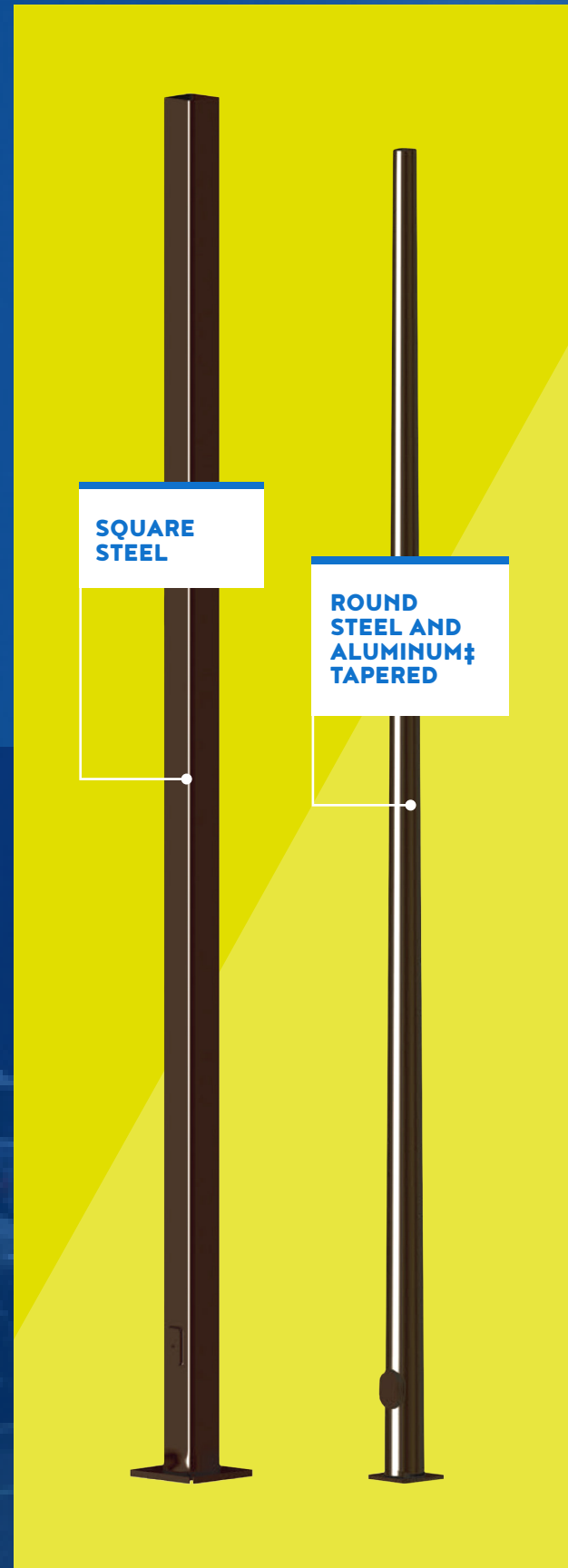
CHOOSE THE BEST LIGHT POLE FOR YOUR PROJECT

For best results, consider all aspects of your project, including:

- Environment
- Structural Supports
- EPA Ratings
- Geographical Location of Jobsite
- Size, Shape & Weight of Fixtures

To get started, follow these five simple steps:

- 1) Choose how your fixture(s) will be mounted:**
 - Top of pole with tenon
 - Top of pole with bullhorn
 - Direct to pole
- 2) Use the charts to determine fixture & mounting EPA ratings (based on the fixture's tilt).**
- 3) Find the geographic wind zone for your jobsite using the Maximum Wind Zone Map.**
- 4) Based on the jobsite's wind zone, select a pole from the Light Pole Specifications & EPA Ratings chart that has an EPA greater than or equal to the Fixture & Mounting EPA. This will help to determine the pole height and SKU that is right for your application.**
- 5) REQUIRED:** Read through the Additional Information for included accessories, shipping, warranty and return policies & more.



1) AVAILABLE MOUNTING OPTIONS

FIXTURE MOUNTING	POLE MOUNTING CONFIGURATION		POLE MOUNTING CONFIGURATION ORDER CODE
2" Adjustable Fitter (Mounts to 2-3/8" O.D. Tenon)	Single	Welded directly to pole	*TDB
	Double Bullhorn @ 180° Requires E-PT2E180DB Accessory		*TDB
	Triple Bullhorn @ 180° Requires E-PT3E180DB Accessory		*TDB
	Triple Bullhorn @ 120° Requires E-PT3E120DB Accessory		*TDB
	Quad Bullhorn @ 180° Requires E-PT4E180DB Accessory		*TDB
	Quad Bullhorn @ 90° Requires E-PT4E090DB Accessory		*TDB
Direct Mount	No Pole Drilling/Field Drilling (includes pole cap)		*0DB
	Drilled for Single (includes pole cap)		*1DB
	Drilled for Double @ 180° (includes pole cap)		*2DB
	Drilled for Double @ 90° (includes pole cap)		*3DB
	Drilled for Triple @ 90° (includes pole cap)		*5DB
	Drilled for Quad @ 90° (includes pole cap)		*6DB

*Add pole mounting configuration order code to the end of the pole SKU selected on page 5. Direct pole mounts for use with square straight steel poles only.

2) FIXTURE AND MOUNTING EPA RATINGS - 2-INCH ADJUSTABLE FITTER MOUNTS

WELDED SINGLE TENON ON POLE (Use Pole Mounting Configuration Order Code: *TDB)												
Fixture	E-FFB08, C-FL-A-LCF-8L, C-FL-A-LCF-11L	C-FL-A-LCF-18L, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13 E-APR19	E-APR32
Tilt												
0°	N/A	0.54	0.49	0.81	0.61	0.73	0.71	0.34	0.38	0.46	0.53	0.72
10°	N/A	0.68	0.65	1.05	0.61	0.81	0.71	0.34	0.38	0.46	0.64	0.76
20°	0.48	0.78	0.77	1.23	0.82	1.16	0.97	0.34	0.38	0.46	0.82	1.04
30°	0.53	0.84	0.84	1.33	0.98	1.41	1.16	0.34	0.38	0.46	0.93	1.23
45°	0.55	0.88	0.90	1.42	1.15	1.68	1.34	0.34	0.38	0.46	1.04	1.43
60°	0.63	1.03	1.06	1.65	N/A	N/A	1.68	N/A	N/A	N/A	N/A	N/A
70°	0.68	1.11	1.15	1.79	N/A	N/A	1.90	N/A	N/A	N/A	N/A	N/A
80°	0.7	1.14	1.19	1.84	N/A	N/A	2.04	N/A	N/A	N/A	N/A	N/A
90°	0.7	1.13	1.19	1.83	N/A	N/A	2.11	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

DOUBLE BULLHORN @ 180° (Use Pole Mounting Configuration Order Code: *TDB)

Fixture	E-FFB08, C-FL-A-LCF-8L E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L E-FFB23, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13 E-APR19	E-APR32
Tilt												
0°	N/A	2.08	1.98	2.62	2.22	2.46	2.42	0.66	0.75	0.93	2.06	2.44
10°	N/A	2.36	2.30	3.10	2.22	2.62	2.42	0.67	0.75	0.93	2.28	2.52
20°	1.96	2.56	2.54	3.46	2.64	3.32	2.94	0.67	0.75	0.93	2.64	3.08
30°	2.06	2.68	2.68	3.66	2.96	3.82	3.32	0.67	0.75	0.93	2.86	3.46
45°	2.1	2.76	2.80	3.84	3.30	4.36	3.68	0.67	0.75	0.93	3.08	3.86
60°	2.26	3.06	3.12	4.30	N/A	N/A	4.36	N/A	N/A	N/A	N/A	N/A
70°	2.36	3.22	3.30	4.58	N/A	N/A	4.80	N/A	N/A	N/A	N/A	N/A
80°	2.4	3.28	3.38	4.68	N/A	N/A	5.08	N/A	N/A	N/A	N/A	N/A
90°	2.4	3.26	3.38	4.66	N/A	N/A	5.22	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. Requires E-PT2E180DB accessory. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

TRIPLE BULLHORN @ 180° (Use Pole Mounting Configuration Order Code: *TDB)

Fixture	E-FFB08, C-FL-A-LCF-8L E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L E-FFB23, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13 E-APR19	E-APR32
Tilt												
0°	N/A	3.22	3.07	4.03	3.43	3.79	4.33	2.61	2.72	2.99	3.19	3.76
10°	N/A	3.64	3.55	4.75	3.43	4.03	4.33	2.61	2.72	2.99	3.52	3.88
20°	3.04	3.94	3.91	5.29	4.06	5.08	5.11	2.61	2.72	2.99	4.06	4.72
30°	3.19	4.12	4.12	5.59	4.54	5.83	5.68	2.61	2.72	2.99	4.39	5.29
45°	3.25	4.24	4.30	5.86	5.05	6.64	6.22	2.61	2.72	2.99	4.72	5.89
60°	3.49	4.69	4.78	6.55	N/A	N/A	7.24	N/A	N/A	N/A	N/A	N/A
70°	3.64	4.93	5.05	6.97	N/A	N/A	7.90	N/A	N/A	N/A	N/A	N/A
80°	3.7	5.02	5.17	7.12	N/A	N/A	8.32	N/A	N/A	N/A	N/A	N/A
90°	3.7	4.99	5.17	7.09	N/A	N/A	8.53	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. Requires E-PT3E180DB accessory. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

TRIPLE BULLHORN @ 120° (Use Pole Mounting Configuration Order Code: *TDB)

Fixture	E-FFB08, C-FL-A-LCF-8L, E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L, E-FFB23, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13 E-APR19	E-APR32
Tilt												
0°	N/A	2.73	2.69	3.80	2.90	3.30	2.94	0.87	1.02	1.17	2.78	3.30
10°	N/A	3.03	3.02	4.32	3.18	3.82	3.60	0.94	1.18	1.62	3.11	3.69
20°	2.45	3.28	3.30	4.75	3.66	4.59	4.17	1.19	1.62	2.24	3.50	4.30
30°	2.57	3.46	3.51	5.06	4.07	5.22	4.65	1.44	1.99	2.82	3.80	4.80
45°	2.66	3.63	3.72	5.38	4.54	5.98	5.18	1.75	2.47	3.58	4.13	5.37
60°	2.78	3.84	3.96	5.72	N/A	N/A	5.77	N/A	N/A	N/A	N/A	N/A
70°	2.83	3.91	4.06	5.87	N/A	N/A	6.08	N/A	N/A	N/A	N/A	N/A
80°	2.83	3.91	4.08	5.87	N/A	N/A	6.25	N/A	N/A	N/A	N/A	N/A
90°	2.8	3.83	4.03	5.76	N/A	N/A	6.29	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. Requires E-PT3E120DB accessory. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

QUAD BULLHORN @ 180° (Use Pole Mounting Configuration Order Code: *TDB)												
Fixture	E-FFB08, C-FL-A-LCF-8L, E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L, E-FFB23, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13, E-APR19	E-APR32
Tilt												
0°	N/A	4.46	4.26	5.54	4.74	5.22	5.24	N/A	N/A	N/A	4.42	5.18
10°	N/A	5.02	4.90	6.50	4.74	5.54	5.24	N/A	N/A	N/A	4.86	5.34
20°	4.22	5.42	5.38	7.22	5.58	6.94	6.28	N/A	N/A	N/A	5.58	6.46
30°	4.42	5.66	5.66	7.62	6.22	7.94	7.04	N/A	N/A	N/A	6.02	7.22
45°	4.5	5.82	5.90	7.98	6.90	9.02	7.76	N/A	N/A	N/A	6.46	8.02
60°	4.82	6.42	6.54	8.90	N/A	N/A	9.12	N/A	N/A	N/A	N/A	N/A
70°	5.02	6.74	6.90	9.46	N/A	N/A	10.00	N/A	N/A	N/A	N/A	N/A
80°	5.1	6.86	7.06	9.66	N/A	N/A	10.56	N/A	N/A	N/A	N/A	N/A
90°	5.1	6.82	7.06	9.62	N/A	N/A	10.84	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. Requires E-PT4E180DB accessory. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

QUAD BULLHORN @ 90° (Use Pole Mounting Configuration Order Code: *TDB)												
Fixture	E-FFB08, C-FL-A-LCF-8L, E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L, E-FFB23, C-FL-A-LCF-23L	E-FFC14, E-FFC19	E-FFC25, E-FFC38	C-AR-A-AL-22L	C-AR-A-AL-29L, 35L, 44L	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13, E-APR19	E-APR32
Tilt												
0°	N/A	3.19	3.22	4.22	3.74	4.16	3.61	0.85	0.97	1.15	3.46	4.12
10°	N/A	3.4	3.46	4.58	3.74	4.28	4.09	0.89	1.01	1.36	3.62	4.18
20°	2.86	3.55	3.64	4.85	4.05	4.80	4.48	1.02	1.27	1.69	3.89	4.60
30°	2.94	3.64	3.74	5.00	4.29	5.18	4.76	1.15	1.46	2	4.06	4.89
45°	2.97	3.7	3.83	5.13	4.55	5.58	5.03	1.29	1.71	3.37	4.22	5.19
60°	3.09	3.93	4.07	5.48	N/A	N/A	5.54	N/A	N/A	N/A	N/A	N/A
70°	3.16	4.05	4.21	5.69	N/A	N/A	5.87	N/A	N/A	N/A	N/A	N/A
80°	3.19	4.09	4.27	5.76	N/A	N/A	6.08	N/A	N/A	N/A	N/A	N/A
90°	3.19	4.08	4.27	5.75	N/A	N/A	6.19	N/A	N/A	N/A	N/A	N/A

Notes: N/A means fixture should not be positioned at these tilt angles. Requires E-PT4E90DB accessory. *Add pole mounting configuration order code to the end of the pole SKU selected on page 5.

2) FIXTURE AND MOUNTING EPA RATINGS - DIRECT ARM MOUNT

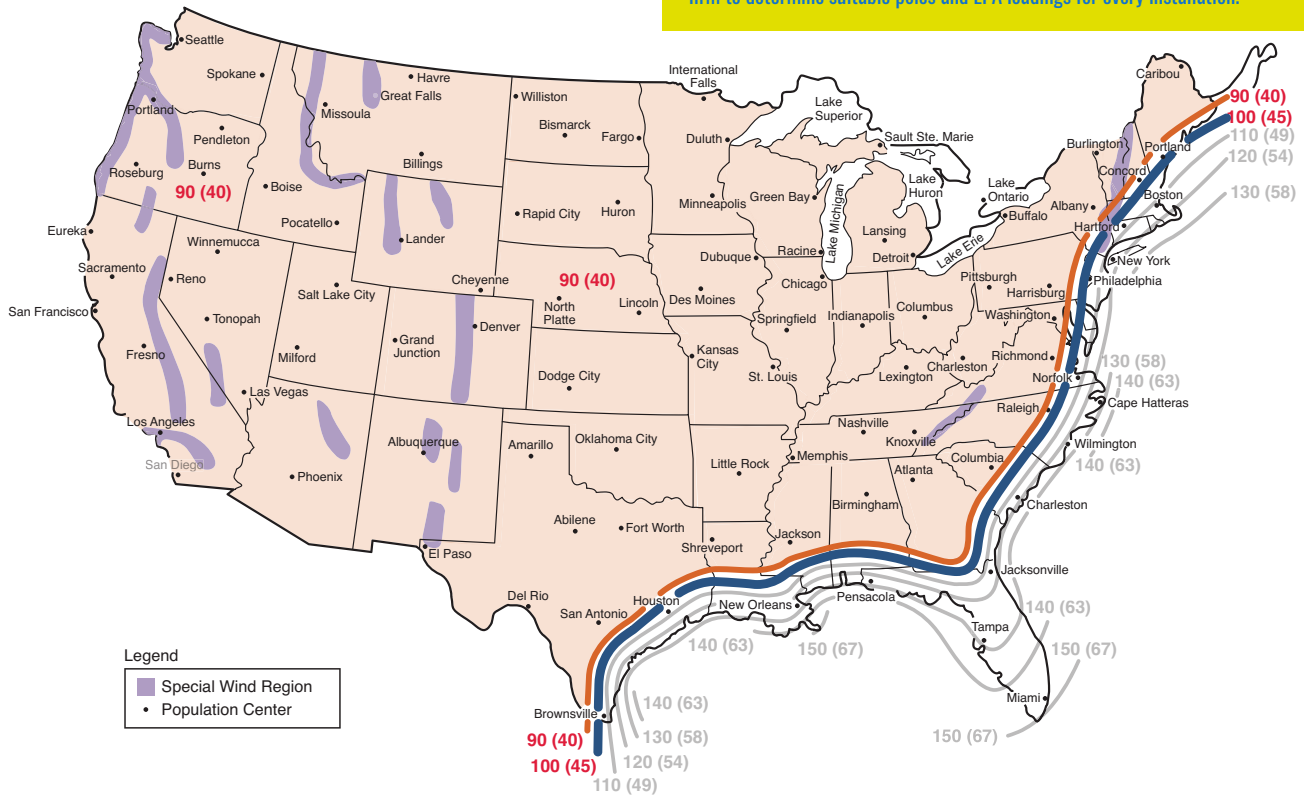
DIRECT ARM												
Pole Mounting Configuration	Pole Mounting Configuration Order Code	E-FFB08, C-FL-A-LCF-8L, E-FFB11, C-FL-A-LCF-11L	E-FFB18, C-FL-A-LCF-18L, E-FFB23, C-FL-A-LCF-23L	C-AR-A-AL-22L (DATA PROVIDED AT 0° TILT ANGLE)	C-AR-A-AL-29L, 35L, 44L (DATA PROVIDED AT 0° TILT ANGLE)	E-APE, C-AR-A-SLx	GKOAL4 (100W)	GKOAL4 (150W)	GKOAL4 (250W)	E-APR13, E-APR19 (DATA PROVIDED AT 0° TILT ANGLE)	E-APR32 (DATA PROVIDED AT 0° TILT ANGLE)	
Single Direct Mount 	*1DB	N/A	N/A	0.67	0.79	0.69	0.34	0.42	0.48	0.56	0.75	
Double Direct Mount @ 180° 	*2DB	N/A	N/A	1.34	1.58	1.38	0.68	0.85	0.95	1.12	1.50	
Double Direct Mount @ 90° 	*3DB	N/A	N/A	0.91	1.10	1.02	0.59	0.74	0.79	0.90	1.09	
Triple Direct Mount @ 90° 	*5DB	N/A	N/A	1.58	1.89	1.71	1.02	1.16	1.26	1.46	1.84	
Quad Direct Mount @ 90° 	*6DB	N/A	N/A	1.82	2.20	2.04	1.02	1.16	1.26	1.80	2.18	

Notes: *Add pole mounting configuration order code to the end of the pole SKU selected on page 5. For use with square straight steel poles only.

3) MAXIMUM WIND ZONE MAP

Approximate Maximum Wind Zones

The Maximum Wind Zone Map is included only for reference. Soil conditions can vary substantially within an area. Installers are advised to work with an engineering firm to determine suitable poles and EPA loadings for every installation.



4) LIGHT POLE SPECIFICATIONS & EPA RATINGS - SQUARE STEEL POLES

	SKU	HEIGHT x WALL THICKNESS	BOLT CIRCLE RANGE	STRUCTURAL WEIGHT OF POLE (LBS.)	ANCHOR BOLT SIZE	90 MPH		100 MPH	
						MAX EPA	MAX FIXTURE WEIGHT (LBS.)	MAX EPA	MAX FIXTURE WEIGHT (LBS.)
4" SQUARE STEEL	E-PS4E15C*	15' x 0.120'	8"-9"	108	3/4"	10.6	265	8.1	203
	E-PS4E17C*	17' x 0.120'	8"-9"	120	3/4"	8.4	210	6.2	155
	E-PS4E20C*	20' x 0.120'	8"-9"	140	3/4"	5.6	140	3.7	93
	E-PS4E20S*	20' x 0.180'	8"-9"	200	3/4"	10.8	270	8.2	205
	E-PS4E22S*	22' x 0.180'	8"-9"	220	3/4"	9.1	228	6.8	170
	E-PS4E25S*	25' x 0.180'	8"-9"	245	3/4"	6.7	168	4.8	120
5" SQUARE STEEL	E-PS5E17C*	17' x 0.120'	10"-12"	160	3/4"	14.7	368	11.1	278
	E-PS5E20C*	20' x 0.120'	10"-12"	185	3/4"	10.9	273	8.0	200
	E-PS5E22S*	22' x 0.180'	10"-12"	305	3/4"	14.6	365	11.0	275
	E-PS5E25S*	25' x 0.180'	10"-12"	330	3/4"	11.3	283	8.1	203
	E-PS5E27S*	27' x 0.180'	10"-12"	350	3/4"	9.2	230	6.3	158
	E-PS5E30S*	30' x 0.180'	10"-12"	380	3/4"	6.4	160	3.6	90
6" SQUARE STEEL	E-PS6E27S*	27' x 0.180'	11"-13"	508	1"	15.8	395	11.5	288
	E-PS6E30S*	30' x 0.180'	11"-13"	520	1"	12.2	305	8.3	208
	E-PS6E35S*	35' x 0.180'	11"-13"	540	1"	7.8	183	4.0	100

4) LIGHT POLE SPECIFICATIONS & EPA RATINGS - ROUND TAPERED POLES

	SKU	HEIGHT	BOLT CIRCLE/ RANGE	BASE O.D. X TOP O.D. & WALL THICKNESS	POLE SHAFT	ANCHOR BOLT SIZE	90 MPH		100 MPH	
							MAX EPA	MAX FIXTURE WEIGHT (LBS.)	MAX EPA	MAX FIXTURE WEIGHT (LBS.)
ROUND TAPERED ALUMINUM# (Includes single welded tenon top)	E-PARE25CTDB	25'	9.5"/8.75- 10.25"	6.0" x 4.0" RND x 0.188"	7.0" x 3.5" x 25'	0.75"	6.1	150	4.6	150
	E-PARE30CTDB	30'	11.5"/11.0- 12.12"	8.0" x 4.5" RND x 0.188"	8.0" x 3.8" x 30'	1"	11.1	150	8.6	150
	E-PARE35CTDB	35'	11.5"/11.0- 12.12"	8.0" x 4.5" RND x 0.188"	8.5" x 3.6" x 35'	1"	7.1	150	5.3	150
	E-PARE39CTDB	39'	14.0"/13.38-15"	9.0" x 6.0" RND x 0.188"	9.0" x 3.6" x 39'	1"	12.4	200	9.2	200
ROUND TAPERED STEEL (Includes single welded tenon top)	E-PSRE25CTDB	25'	9.5"-10.5"	7.0" x 3.5" RND x 11" Gauge	7.0" x 3.5" x 25'	1"	16.2	405	13.1	327
	E-PSRE30CTDB	30'	10.5"-11.5"	8.0" x 3.8" RND x 11" Gauge	8.0" x 3.8" x 30'	1"	14.9	373	12.0	300
	E-PSRE35CTDB	35'	11.5"/11-12"	8.5" x 3.6" RND x 11" Gauge	8.5" x 3.6" x 35'	1"	15.1	377	12.2	305
	E-PSRE39CTDB	39'	12.5"/12-13"	9.0" x 3.6" RND x 11" Gauge	9.0" x 3.6" x 39'	1"	13.5	338	10.8	270
	E-PSRE45CTDB	45'	13.5"/13-14"	10.0" x 3.7" RND x 11" Gauge	10.0" x 3.7" x 45"	1"	13.5	338	10.6	265
	E-PSRE50CTDB	50'	13.5"/13-14"	10.0" x 3.0" RND x 11" Gauge	10.0" x 3.0" x 50"	1"	10.6	265	8.3	208

Notes: Not for use with luminaries with direct mount.

5) ADDITIONAL INFORMATION

Ordering

e-conolight poles can be ordered through our Customer Service department by calling 888-243-9445 or online at www.e-conolight.com. Because poles are custom manufactured upon your order, your credit card will be charged immediately, regardless of lead-time (required prior to shipment). Please carefully select your poles based upon proper mounting configuration and wind loading in your area.

Pole and Bullhorn Shipping

A complete shipping address must be provided at the time of order (No PO Boxes). Expedited orders cannot be accepted. Because poles and fixtures ship from different locations, e-conolight cannot guarantee arrival of fixtures and poles on the same day. Anchor bolts shipping in advance will incur additional freight charges. Shipping to the continental US only. Customer is responsible for the offloading of product. Please ensure that the ship-to address can accommodate a large truck delivery.

Returns / Restocking and Order Changes

Poles and bullhorns are custom manufactured specifically for each order. They are considered special and CANNOT be modified or canceled once your order has been placed. Once the custom order is placed, it cannot be stopped, and it cannot be refused upon delivery. Pole and bullhorn shipments with damage must be signed for as damaged, and accepted. Contact Customer Service at 888-243-9445 after acceptance to resolve any issue. Credit will not be offered on refused shipments.

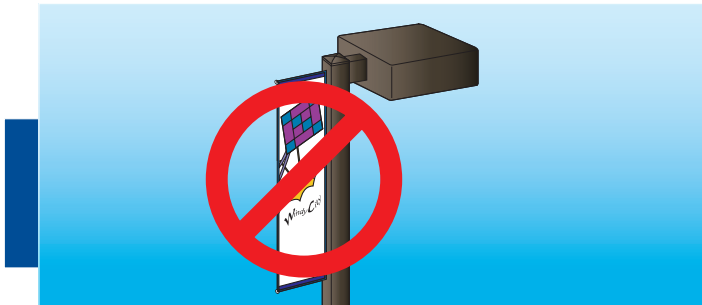
Anchor Bolts

Partially galvanized anchor bolts and hardware are furnished with each pole. The bolts are made from carbon steel bar conforming to AASHTO and ASTM Grade-55 requirements.

Advance shipment of bolts is available for an additional freight charge and must be requested when pole order is placed. Bolts must ship to the same address as the accompanying pole.

Pole Base

Base is supplied with slotted anchor bolt openings so that a range of bolt circles can be utilized. The base plate telescopes the pole shaft and is circumferentially welded top and bottom. Template can be found on our website under installation instructions. Paper template provided with pole.



Handhole

A rectangular shaped handhole is furnished and includes a steel cover and attachment bar with machine screw. The handhole is located 18-inches above the pole base.

Electrical Ground

A ground lug is provided near the handhole and includes a hex-head bolt and nut.

Base Cover

A standard, full base cover is included with each steel pole and is made from ABS plastic. Its two-piece construction is secured together with two plastic, hand push rivets. Round Tapered Aluminum† poles are supplied with nut covers.

Pole Caps

A removable pole cap is included with each pole configured for fixture side mounting or no drill. Poles with tenon top configuration do not include a pole cap.

Paint Finish

All e-conolight poles are mechanically cleaned and coated with an electrostatically applied, baked-on powder topcoat to provide years of worry-free service in the field. All e-conolight poles and bullhorns are painted in dark-bronze to closely match fixtures and mounting options.

Warranty

e-conolight warrants its poles to be free from defects in materials and workmanship for a period one year from the date of delivery. e-conolight will, at its discretion, repair or replace without charge any returned defective part (FOB factory). The warranty specifically excludes fatigue failure, or similar phenomena, resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the pole.

The above warranties are given in lieu of all other warranties expressed or implied, including and without limitation, the warranty of merchantability and the warranty of suitability for a particular purpose. It is expressly stated that e-conolight assumes no liability for consequential or liquidated damages arising out of a breach of the sale, including any warranties arising therefrom and buyer's remedy shall be limited to repair or replacement of defective parts as described above.

NOTE: EPA ratings for e-conolight poles are rated for use with e-conolight fixtures only. It is the sole responsibility of the customer to carefully select poles based upon the proper mounting configuration and the wind loading of the area where the installation will occur.

Hanging signs, banners and flags on light poles change the EPA rating and increase vibration. The EPA ratings data provided on this guide does not allow for this added stress, which could result in pole or fixture failure.

MANUFACTURING LEAD TIMES

Item	Lead Time*
Steel Poles	10-12 business days
Bullhorns	10-12 business days
Round Tapered Steel Poles	20-22 business days
Round Tapered Aluminum† Poles	25-27 business days

*Approximate manufacturing lead times from third party vendor. Pole quantities of 5 or more and poles over 25' only ship on Tuesdays. Please allow additional time for transit.

† For more information on aluminum poles, visit www.e-conolight.com/poles



e-conolight®