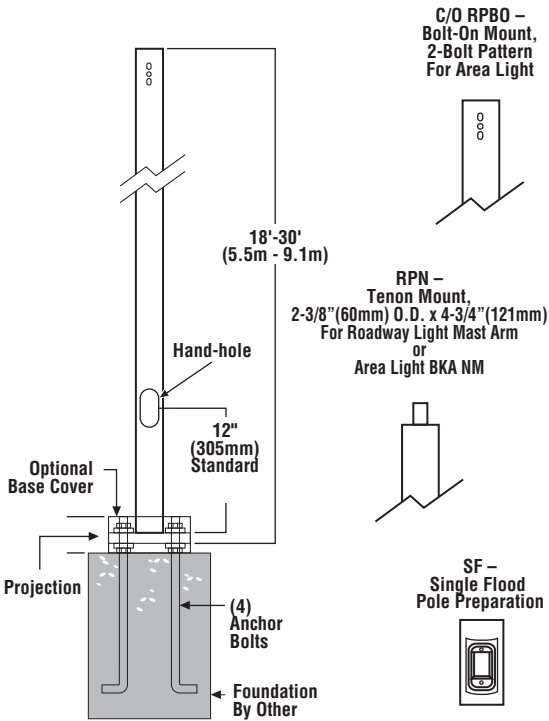


# CROSSOVER<sup>®</sup> ROUND STEEL POLES - FOR USE WITH CROSSOVER AREA & ROADWAY LIGHTS

## DIMENSIONS



**POLE SHAFT** - Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 46,000 psi. Steel round poles are 4" and 5" round. Available with Crossover Area Light drilling (C/O 4RPBO and C/O 5RPBO) or with tenon (4RPN and 5RPN) for Crossover Roadway Light with Mast Arm or Crossover Area Light with BKA NM tenon bracket. On tenon mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

**HAND-HOLE** - Standard hand-hole location is 12" above pole base. Poles 18' and above have a 3" x 6" reinforced hand-hole. Shorter poles have 2" x 4" non-reinforced hand-hole.

**BASE** - Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

**ANCHOR BOLTS** - Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional. Anchor bolts conform with ASTM-A36 with a minimum yield strength of 36,000 psi.

**GROUND LUG** - Ground lug is standard.

**DUPLEX RECEPTACLE** - Weatherproof duplex receptacle is optional.

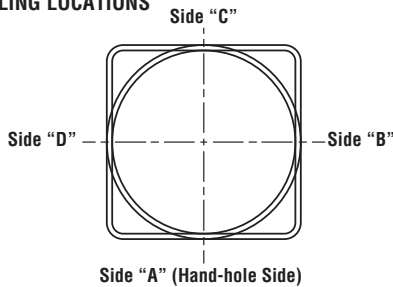
**GROUND FAULT CIRCUIT INTERRUPTER** - Ground fault circuit interrupter is optional.

**FINISHES** - Each pole is finished with DuraGrip<sup>®</sup>, LSI's baked-on polyester-powder finishing process to give the pole an exceptionally attractive appearance. The process electrostatically applies and thermally fuses a polyester powder to the pole. This unique protection process provides an extremely smooth and uniform finish to withstand extreme weather changes without cracking or peeling. DuraGrip finish features a five-year limited warranty. Standard finish colors available for poles are bronze, black, platinum plus, buff, white, satin verde green, metallic silver, and graphite. Optional DuraGrip Plus features added protection with a 3.0 to 5.0 mil thickness of polyester-powder finish plus an inner coating. This specially developed inner coating is a thermal plastic hydrocarbon resin applied to the inside of the pole to seal and protect against atmospheric and corrosive matter. DuraGrip Plus finish features a seven-year limited warranty.

### DETERMINING THE LUMINAIRE/POLE COMBINATION FOR YOUR APPLICATION:

- Select luminaire from Luminaire Ordering Information.
- Select bracket configuration.
- Refer to Luminaire EPA Chart to determine EPA value.
- Select Height of pole.
- Select MPH to match the wind speed in the application area. (Windspeed Map located in Appendix)
- Confirm the pole EPA that is equal to or exceeds the luminaire/bracket EPA as was previously determined.

### DRILLING LOCATIONS



Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180°		X		X
D90°	X			X
T90°	X	X		X
TN120°*	X			
Q90°	X	X	X	X
Single FBO	X			
Double FBO		X		X

\*Other two locations will be 120° to the left and right of Side A.

**Note:** Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.

### SHIPPING WEIGHTS - Steel Round Poles

4" (102mm) Dia. 10 Ga. is approximately	6.0 lbs./ft.
5" (127mm) Dia. 11 Ga. is approximately	7.0 lbs./ft.
5" (127mm) Dia. 07 Ga. is approximately	10.0 lbs./ft.
Anchor Bolts (3/4" x 30") (19mm x 762mm)	15 lbs. (7kg)/set
Anchor Bolts (1" x 36") (25mm x 914mm)	30 lbs. (14kg)/set

### POLE SELECTION CHART: 4" (102mm) and 5" (127mm) steel round poles

Height	EPA <sup>™</sup>				Outside Dimensions	Material	Bolt Circle
	70 MPH	80 MPH	90 MPH	100 MPH			
18' (5.5m)	15.5	11.1	8.0	5.8	4" (102mm)	S10G	L
20' (6.1m)	12.5	8.7	6.1	4.2	4" (102mm)	S10G	L
20' (6.1m)	20.0	14.2	10.2	7.4	5" (127mm)	S11G	L
22' (6.7m)	10.0	6.7	4.4	2.8	4" (102mm)	S10G	L
22' (6.7m)	16.6	11.5	8.0	5.5	5" (127mm)	S11G	L
24' (7.3m)	7.8	4.9	3.0	1.5	4" (102mm)	S10G	L
24' (7.3m)	13.6	9.1	6.0	3.8	5" (127mm)	S11G	L
24' (7.3m)	22.9	16.2	11.6	8.3	5" (127mm)	S07G	M
26' (7.9m)	11.1	7.1	4.3	2.3	5" (127mm)	S11G	L
26' (7.9m)	19.5	13.5	9.4	6.4	5" (127mm)	S07G	M
28' (8.5m)	16.5	11.1	7.4	4.7	5" (127mm)	S07G	M
30' (9.1m)	13.8	8.9	5.6	3.2	5" (127mm)	S07G	M

➔ Refer to EPA information on next page.  
If luminaire weight exceeds 250 lbs. (113.4 kg), consult factory.  
For applications in Florida or Canada, consult factory.

# CROSSOVER® ROUND STEEL POLES - FOR USE WITH CROSSOVER AREA & ROADWAY LIGHTS

## POLE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **C/O 5RPBO S07G 24 S PLP SF DGP**

Pole Series	Material	Height <sup>2</sup>	Mounting Configuration	Pole Finish	Options
<b>Round Pole for Bolt-On Mount Crossover Area Light 2-Bolt Pattern</b> C/O 4RPBO C/O 5RPBO	S11G – 11 Ga. Steel S10G – 10 Ga. Steel <sup>1</sup> S07G – 07 Ga. Steel	18' 20' 22' 24' 26' 28' 30'	S – Single/Parallel D180 – Double D90° – Double DN90° – Double T90° – Triple TN120° – Triple Q90° – Quad	BRZ – Bronze BLK – Black PLP – Platinum Plus BUF – Buff WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver	GA – Galvanized Anchor Bolts SF – Single Flood <sup>3</sup> DF – Double Flood <sup>3</sup> DGP – DuraGrip® Plus LAB – Less Anchor Bolts
<b>Round Pole for Tenon Mount Crossover Roadway Light w/ Mast Arm or Area Light w/ Tenon Mount Bracket (BKA NM)</b> 4RPN 5RPN	Consult Pole Selection Chart on opposite page		N - Tenon Mount (standard tenon size is 2-3/8" O.D.)		Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.
	NOTE: C/O prefix is not required for tenon poles				

### FOOTNOTES:

1- 4" poles are available in S10G only. 5" poles available in S11G and S07G only.

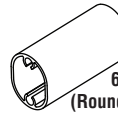
2- Pole heights will have +/- 1/2" tolerance.

3- See Flood Lighting Brackets Section.

### ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Description	Order Number
4" SRBC Square Base Cover	158450CLR	X4RPP - Round Pole Plate for 4" poles (Area Light Only)	379967CLR
5" SRBC Square Base Cover	158451CLR	X5RPP - Round Pole Plate for 5" poles (Area Light Only)	379968CLR
ER2 – Weatherproof Duplex Receptacle (Poles below 18')	122557CLR	BKA-XBO-EC-6-CLR – 6" Extension Arm (Area Light Only)	382136CLR
ER2 – Weatherproof Duplex Receptacle for Reinforced Hand-hole (Poles 18' and above)	122566CLR		
GFI – Ground Fault Circuit Interrupter (Poles below 18')	122558CLR		
GFI – Ground Fault Circuit Interrupter for Reinforced Hand-hole (Poles 18' and above)	122567CLR		
MHD – Mounting Hole Weatherproof Decal	Consult Factory		



**BKA XBO**  
6" extension arm  
(Round Pole Plate required)

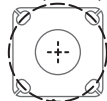


**X4RPP (for 4" poles)**  
**X5RPP (for 5" poles)**

### BOLT CIRCLE

4" (102mm) Round

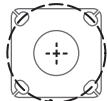
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

5" (127mm) Round

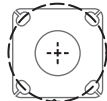
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

5" (127mm) Round

10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

	L	L	M
Bolt Circle	Slotted 11" (279mm)	Slotted 11" (279mm)	Slotted 11" (279mm)
Anchor Bolt Size	3/4" x 30" (19mm x 762mm)	3/4" x 30" (19mm x 762mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the base plate templates.

### EPA INFORMATION

All LSI Lighting Systems' poles are guaranteed to meet the EPA requirements listed. LSI Lighting Systems is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

**CAUTION:** This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Lighting Systems cannot accept responsibility for harm or damage caused in these situations.

**NOTE:** Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

09/02/09

Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

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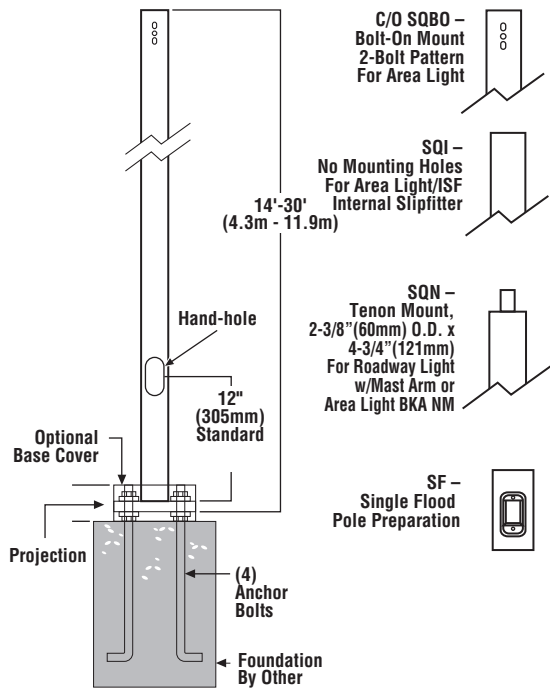
Catalog # \_\_\_\_\_



A Company with a Smart Vision

# CROSSOVER<sup>®</sup> SQUARE STEEL POLES - FOR USE WITH CROSSOVER AREA & ROADWAY LIGHTS

## DIMENSIONS



**POLE SHAFT** - Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 50,000 psi. Straight poles are 4" and 5" square. Available with Crossover Area Light drilling (C/O 4SQBO and C/O 5SQBO), open topped for Internal Slip-fitter for use with Crossover Area Light (4SQI and 5SQI), or with tenon (4SQN and 5SQN) for use with Crossover Roadway Light and Mast Arm or Crossover Area Light with BKA NM tenon bracket. On tenon mount steel poles, tenon is 2-3/8" O.D. high-strength pipe. Tenon is 4-3/4" in length.

**HAND-HOLE** - Standard hand-hole location is 12" above pole base. Poles 22' and above have a 3" x 6" reinforced hand-hole. Shorter poles have a 2" x 4" non-reinforced hand-hole.

**BASE** - Pole base is ASTM-A36 hot-rolled steel plate with a minimum yield strength of 36,000 psi. Two-piece square base cover is optional.

**ANCHOR BOLTS** - Poles are furnished with anchor bolts featuring zinc-plated double nuts and washers. Galvanized anchor bolts are optional. Anchor bolts conform to ASTM-A36 with a minimum yield strength of 36,000 psi.

**GROUND LUG** - Ground lug is standard.

**DUPLEX RECEPTACLE** - Weatherproof duplex receptacle is optional.

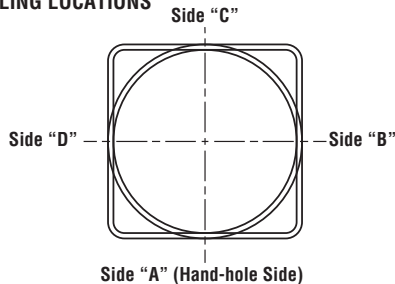
**GROUND FAULT CIRCUIT INTERRUPTER** - Ground fault circuit interrupter is optional.

**FINISHES** - Each pole is finished with LSI's DuraGrip<sup>®</sup> baked-on polyester-powder finishing process to give the pole an exceptionally attractive appearance. The process electrostatically applies and thermally fuses a polyester powder to the pole. This unique protection process provides an extremely smooth and uniform finish which withstands extreme weather changes without cracking or peeling. DuraGrip finish features a five-year limited warranty. Standard finish colors available for poles are bronze, black, platinum plus, buff, white, satin verde green, metallic silver, and graphite. Optional DuraGrip Plus features added protection with a 3.0 to 5.0 mil thickness of polyester-powder finish plus an inner coating. This specially developed inner coating is a thermal plastic hydrocarbon resin applied to the inside of the pole to seal and protect against atmospheric and corrosive matter. DuraGrip Plus finish features a seven-year limited warranty.

## DETERMINING THE LUMINAIRE/POLE COMBINATION FOR YOUR APPLICATION:

- Select luminaire from Luminaire Ordering Information.
- Select bracket configuration.
- Refer to Luminaire EPA Chart to determine EPA value.
- Select Height of pole.
- Select MPH to match the wind speed in the application area. (Windspeed Map located in Appendix)
- Confirm the pole EPA that is equal to or exceeds the luminaire/bracket EPA as was previously determined.

## DRILLING LOCATIONS



Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180°		X		X
D90°	X			X
T90°	X	X		X
TN120°*	X			
Q90°	X	X	X	X
Single FBO	X			
Double FBO		X		X

\*Other two locations will be 120° to the left and right of Side A.

**Note:** Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.

## SHIPPING WEIGHTS - Steel Square Poles

4"(102mm) sq. 11 Ga. is approximately	7.50 lbs./ft.
4"(102mm) sq. 07 Ga. is approximately	10.00 lbs./ft.
5"(127mm) sq. 11 Ga. is approximately	9.00 lbs./ft.
5"(127mm) sq. 07 Ga. is approximately	12.50 lbs./ft.
Anchor Bolts (3/4" x 30")(19mm x 762mm)	15 lbs. (7kg)/set
Anchor Bolts (1" x 36")(25mm x 914mm)	30 lbs. (14kg)/set

## POLE SELECTION CHART: 4"(102mm) and 5"(127mm) steel square poles

Height	EPA <sup>†</sup>				Outside Dimensions	Material	Bolt Circle
	70 MPH	80 MPH	90 MPH	100 MPH			
14' (4.3m)	23.3	16.7	12.2	9.0	4" (102mm)	S11G	B
16' (4.9m)	18.6	13.1	9.3	6.5	4" (102mm)	S11G	B
16' (4.9m)	34.6	25.0	18.5	13.8	5" (127mm)	S11G	C
18' (5.5m)	14.4	9.7	6.5	4.2	4" (102mm)	S11G	B
18' (5.5m)	27.9	19.7	14.1	10.1	5" (127mm)	S11G	C
20' (6.1m)	11.0	7.0	4.2	2.2	4" (102mm)	S11G	B
20' (6.1m)	18.7	12.8	8.8	5.9	4" (102mm)	S07G	B
20' (6.1m)	22.5	15.4	10.5	7.0	5" (127mm)	S11G	C
20' (6.1m)	35.5	25.4	18.4	13.4	5" (127mm)	S07G	D
22' (6.7m)	10.4	6.3	3.4	1.4	4" (102mm)	S11G	B
22' (6.7m)	18.7	12.6	8.4	5.4	4" (102mm)	S07G	B
22' (6.7m)	20.8	13.8	8.9	5.5	5" (127mm)	S11G	C
22' (6.7m)	34.0	23.9	17.0	12.0	5" (127mm)	S07G	D
24' (7.3m)	7.7	4.0	1.5	—	4" (102mm)	S11G	B
24' (7.3m)	15.1	9.7	6.0	3.3	4" (102mm)	S07G	B
24' (7.3m)	16.7	10.5	6.2	3.1	5" (127mm)	S11G	C
24' (7.3m)	28.6	19.6	13.4	8.9	5" (127mm)	S07G	D
26' (7.9m)	5.3	2.1	—	—	4" (102mm)	S11G	B
26' (7.9m)	12.0	7.2	3.9	1.5	4" (102mm)	S07G	B
26' (7.9m)	13.2	7.6	3.8	1.0	5" (127mm)	S11G	C
26' (7.9m)	24.0	15.8	10.3	6.3	5" (127mm)	S07G	D
28' (8.5m)	19.9	12.5	7.5	3.9	5" (127mm)	S07G	D
30' (9.1m)	16.3	9.6	5.0	1.7	5" (127mm)	S07G	D

<sup>†</sup> Refer to EPA information on next page.

If luminaire weight exceeds 250 lbs. (113.4kg), consult factory  
For applications in Florida or Canada, consult factory

# CROSSOVER® SQUARE STEEL POLES - FOR USE WITH CROSSOVER AREA & ROADWAY LIGHTS

## POLE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **C/O 5SQBO S07G 24 D180 PLP SF DGP**

Pole Series	Material	Height <sup>1</sup>	Mounting Configuration	Pole Finish	Options
Square pole for Bolt-on mount Crossover Area Light 2-Bolt Pattern C/O 4SQBO C/O 5SQBO	S11G – 11 Ga. Steel S07G – 07 Ga. Steel	14'	S – Single/Parallel	BRZ – Bronze BLK – Black PLP – Platinum Plus BUF – Buff WHT – White SVG – Satin Verde Green GPT – Graphite MSV – Metallic Silver	GA – Galvanized Anchor Bolts SF – Single Flood <sup>3</sup> DF – Double Flood <sup>3</sup> DGP – DuraGrip® Plus LAB – Less Anchor Bolts
		16'	D180 – Double		
Square Pole w/open top for Crossover Area Light w/Internal Slipfitter (ISF) 4SQI 5SQI	Consult Pole Selection Chart on opposite page	18'	D90° – Double	I - for use with Internal Slipfitter <sup>2</sup>	Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, unless otherwise specified.
		20'	DN90° – Double		
Square Pole for Tenon Mount Crossover Roadway Light w/Mast Arm or AreaLight w/Tenon Mount Bracket (BKA NM) 4SQN 5SQN	NOTE: C/O prefix is not required for tenon or open-top poles	22'	T90° – Triple	N - Tenon Mount (standard tenon size is 2-3/8" O.D.)	
		24'	TN120° – Triple		
		26'	Q90° – Quad		
		28'	QN90° – Quad		
		30'			

### FOOTNOTES:

1- Pole heights will have +/- 1/2" tolerance.

2- See Crossover Area Lighting Brackets Section.

3- See Flood Lighting Brackets Section.

### ACCESSORY ORDERING INFORMATION

(Accessories are field installed)

Description	Order Number	Description	Order Number
4BC – 4" Square Base Cover	122559CLR	Vibration Damper - 4" Square Pole	172539
5BC – 5" Square Base Cover	122561CLR	Vibration Damper - 5" Square Pole	172538
ER2 – Weatherproof Duplex Receptacle	122566CLR	BKA-XBO-EC-6-CLR – 6" Extension Arm (Area Light only)	382136CLR
GFI – Ground Fault Circuit Interrupter	122567CLR		
MHP – Mounting Hole Plugs (3 plugs)	132336		



### BOLT CIRCLE

4" (102mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

5" (127mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

5" (127mm) square  
10-1/8" (257mm) sq.



11" (279mm) Dia. Bolt Circle

	B	C	D
Bolt Circle	8"-11" (203mm-279mm)	9"-11" (229mm-279mm)	9"-11" (229mm-279mm)
Anchor Bolt Size	3/4" x 30" (19mm x 762mm)	3/4" x 30" (19mm x 762mm)	1" x 36" (25mm x 914mm)
Anchor Bolt Projection	3-1/4" (83mm)	3-1/4" (83mm)	4" (102mm)
Base Plate Opening for Wireway Entry	3-5/8" (92mm)	4-3/4" (121mm)	4-5/8" (117mm)
Base Plate Dimensions	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 3/4" thk. (257mm x 19mm)	10-1/8" sq. x 1" thk. (257mm x 25mm)

Note: Base plate illustrations may change without notice. Do not use for setting anchor bolts. Consult factory for the base plate templates.

### EPA INFORMATION

All LSI Lighting Systems' poles are guaranteed to meet the EPA requirements listed. LSI Lighting Systems is not responsible if a pole order has a lower EPA rating than the indicated wind-loading zone where the pole will be located.

CAUTION: This guarantee does not apply if the pole/bracket/fixture combination is used to support any other items such as flags, pennants, or signs, which would add stress to the pole. LSI Lighting Systems cannot accept responsibility for harm or damage caused in these situations.

NOTE: Pole calculations include a 1.3 gust factor over steady wind velocity. Example: poles designed to withstand 80 MPH steady wind will withstand gusts to 104 MPH. EPAs are for locations 100 miles away from hurricane ocean lines. Consult LSI for other areas. Note: Hurricane ocean lines are the Atlantic and Gulf of Mexico coastal areas. For applications in Florida or Canada, consult factory.

09/02/09

Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

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Catalog # \_\_\_\_\_

