

# STEEL ROUND STRAIGHT POLES

## Features & Specifications

### Pole Shaft

- Steel round poles are 4" or 5" in diameter.
- Pole shaft is electro-welded ASTM-A500 Grade C steel tubing with a minimum yield strength of 46,000 psi.
- On Tenon Mount steel poles, tenon is high-strength pipe. Tenon N option is 2-3/8" O.D. x 4-3/4" tall. Tenon 4N option is 4" O.D. x 4-7/8" tall.

### 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. Decorative base cover is also available.

### 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 F 1554-07a Grade 55 with a minimum yield strength of 55,000 psi.

### Ground Lug

- Ground lug is standard.

### Duplex Receptacle

- Weatherproof duplex receptacle is optional.

### Ground Fault Circuit Interrupter

- Self-testing ground fault circuit interrupter is optional.

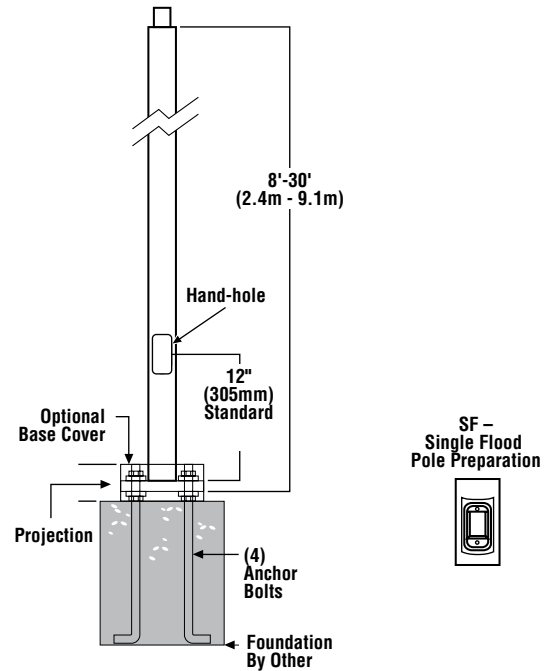
### Finishes

- Every pole is provided with the **DuraGrip® Protection System** and a 5-year limited warranty:
  - Each shaft is purchased to a stricter straightness tolerance than specified on industry material standards. Shafts with dents, dings, roll marks, or patterns on the exterior surface are rejected. Shafts are stored indoors to prevent corrosion.
  - After connecting holes are cut and hand holes and baseplates welded to the shafts, each pole undergoes a thorough shot-peening process, resulting in a near-white surface. This procedure removes all dirt and scale and strengthens the surface of the steel by inducing a compressive residual stress that helps prevent cracking and extend the life of the pole.
  - After shot peening, a neutral wash is applied followed by the application of a zirconium treatment that improves powder-coat adhesion and protects from corrosion.
  - Next, each pole is coated through electrostatic application of a polyester powder paint in standard LSI bronze or the color approved by the customer. Paint thickness is measured in multiple locations along the pole to ensure specification adherence.
  - Finally, the pole is oven baked to form a homogenous, non-porous surface and wrapped for shipment in a woven fabric sleeve to protect the finish during transit.
- When the top-of-the line **DuraGrip® Plus Protection System** is selected, in addition to the DuraGrip® Protection System, a non-porous, automotive-grade corrosion coating is applied to the lower portion of the pole interior, sealing and further protecting it from corrosion. This option extends the limited warranty to 7 years.

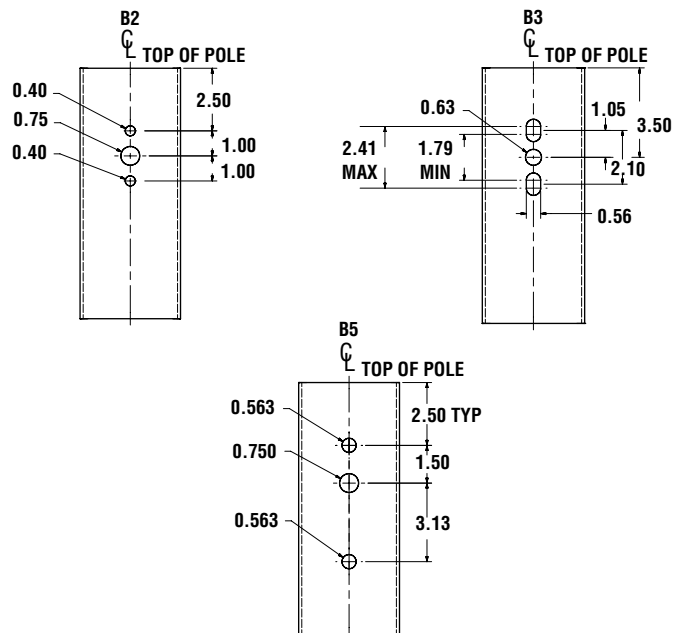


## Product Dimensions

RPT –  
 N = 2-3/8"(60mm) O.D. x 4-3/4"(121mm) Tenon  
 4N = 4"(102mm) O.D. x 4-7/8"(124mm) Tenon  
 4N6 = 4"(102mm) O.D. x 6-3/8"(162mm) Tenon



**Bolt-On Mount 2-Bolt Pattern**



# STEEL ROUND STRAIGHT POLES

## Features & Specifications (Cont.)

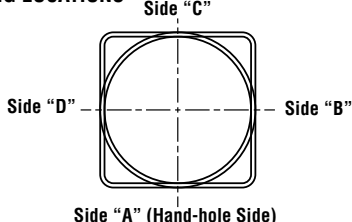
### Determining The Luminaire/Pole Combination For Your Application:

- Select luminaire from luminaire ordering information
- Select bracket configuration if required
- Determine EPA value from luminaire/bracket EPA chart
- Select pole height
- Select MPH to match wind speed in the application area (See windspeed maps).
- Confirm pole EPA equal to or exceeding value from note above
- Consult factory for special wind load requirements and banner brackets

#### 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")(125mm x 914mm)	30 lbs.(14kg)/set

**DRILLING LOCATIONS**



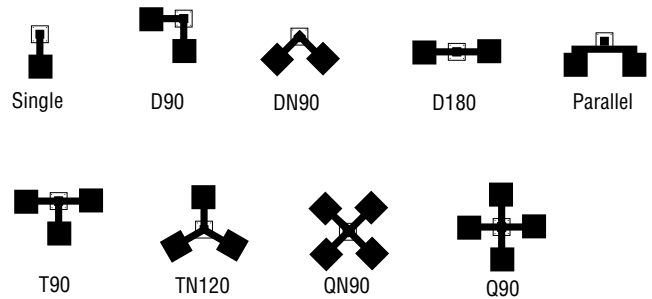
Sides	A	B	C	D
Hand-hole	X			
Single	X			
D180	X		X	
D90	X			X
DN90 <sup>1</sup>				
T90	X	X		X
TN120 <sup>2</sup>	X			
Q90	X	X	X	X
QN90 <sup>3</sup>				
Single FBO	X			
Double FBO		X		X

**Notes:**

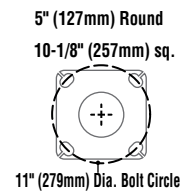
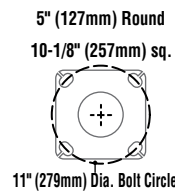
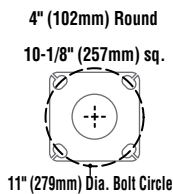
- 1 - Two locations will be 45° to the left and right of Side A.
- 2 - Other two locations will be 120° to the left and right of Side A.
- 3 - Two locations will be 45° to the left and right of Side A and two locations will be 135° to the left and right of Side A.

Consult factory for custom variations. Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.

## Fixture Configurations



## Bolt Circle



Bolt Circle Designator	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 appropriate anchor bolt template.

# STEEL ROUND STRAIGHT POLES

## Ordering Guide

TYPICAL ORDER EXAMPLE: **5RP B5 S07G 24 S PLP DGP**

Pole Series	Mounting Method	Material	Height <sup>4</sup>	Mounting Configuration	Pole Finish	Options
<b>4RP</b> - 4" Diameter Round Straight Pole <b>5RP</b> - 5" Diameter Round Straight Pole	<b>Bolt-On Mount<sup>1</sup></b> - See pole selection guide for patterns and fixture matches. <b>B5</b> - 5" Traditional Drilling Pattern <b>B3</b> - 3" Reduced Drilling Pattern <b>B2</b> - 2" Tellus Drilling Pattern	S11G - 11 Ga. Steel (5RP only)	8' 10'	S - Single/Parallel D180 - Double D90 - Double DN90 - Double T90 - Triple TN120 - Triple Q90 - Quad QN90 - Quad	BRZ - Bronze BLK - Black PLP - Platinum Plus WHT - White SVG - Satin Verde Green GPT - Graphite MSV - Metallic Silver BZA - Alternate Bronze	GA - Galvanized Anchor Bolts SF - Single Flood <sup>6</sup> DF - Double Flood <sup>6</sup> DGP - DuraGrip <sup>®</sup> Plus LAB - Less Anchor Bolts OSXX - Pole preparation for PMOS Occupancy Sensor <sup>7</sup>
		S10G - 10 Ga. Steel (4RP only)	12' 14'			
	<b>T</b> - Tenon Mount - See pole selection guide for tenon and fixture/bracket matches.	S07G - 07 Ga. Steel (5RP only)	15' 16' 17'	N - Tenon Mount 4N - Tenon Mount (5RPT only. For 4" poles, use 4RPI <sup>5</sup> ) 4N-6 - Tenon Mount (5RPT only. For 4" poles use 4RPI)		Standard SF and DF pole preparations are located 3/4 of the height of the pole from the base, except on 20' poles. Maximum height for SF and DF pole preparations on 20' poles is 13' from the base.
			17' 6" 18' 20' 22' 22' 6" 24' 25' 26' 27' 28' 30'			
	<b>I</b> - No Mounting Holes <sup>1</sup> - Use with: • Greenlee Lifestyle CC, SC & CH mounting styles • Enterprise, Intrepid & Lexington PT Single mounting styles <sup>2</sup> • Lifestyle UCLS • Lifestyle UCLD180					

Height Restriction, Consult Pole Selection Chart on opposite page

## Accessory Ordering Information

Description	Order Number	Description	Order Number
4" SRBC Square Base Cover	158450CLR	BB - Banner Brackets	Consult Factory for EPA calculations
5" SRBC Square Base Cover	158451CLR	PMOS120 - 120V Occupancy Sensor	518030CLR <sup>8</sup>
4" / 5" GBC Decorative Base Cover	483859CLR	PMOS208/240 - 208, 240V Occupancy Sensor	534239CLR <sup>8</sup>
ER2 - Weatherproof Duplex Receptacle (Poles below 18')	122557CLR	PMOS277 - 277V Occupancy Sensor	518029CLR <sup>8</sup>
ER2 - Weatherproof Duplex Receptacle for Reinforced Hand-hole (Poles 18' and above)	122566CLR	PMOS480 - 480V Occupancy Sensor	534240CLR <sup>8</sup>
GFI - Ground Fault Circuit Interrupter (Poles below 18')	122558CLR		
GFI - Ground Fault Circuit Interrupter for Reinforced Hand-hole (Poles 18' and above)	22567CLR		
MH5 - Mounting Hole Plugs for use with 5" traditional drill pattern (1 set of 3 plugs)	132336		
MH3 - Mounting Hole Plugs for use with 3" reduced drill pattern (3 sets of 3 plugs)	681126		

### FOOTNOTES:

- See Area Light Brackets - 3" Reduced Drill Pattern and Area Light Brackets - 5" Traditional Drill Pattern spec sheets.
- For Enterprise, Intrepid and Lexington PT mounting configuration styles, see Tenon Mount (4N) and Greenlee Slipfit Pole Series (4RPI).
- Standard flat black pole cap provided. Domed Greenlee pole cap will ship with SA4 and SA5 Enterprise, Intrepid and Lexington fixtures, SA Lifestyle fixtures, BK SPT BO, BK MPT BO and UCL brackets.
- Pole heights will have +/- 1/2" tolerance.

- For Enterprise, Intrepid and Lexington D180 or other mounting configuration styles using BK SPT BO and BK MPT BO accessories, see chart on Bolt-on Mount 4RPB3 / 5RPB3 DRILLING PATTERN section on pole selection chart.
- See Flood Lighting Brackets section for choice of FBO brackets.
- Order PMOS separately. Change "XX" to indicate height and side of pole location for pole preparation. EX: OS18A indicates preparation is to be 18ft. up from pole base on side A. Optimal distance from ground to sensor is 20ft.
- OSXX option required. Not for use with Metal Halide fixtures.

# STEEL ROUND STRAIGHT POLES

## Wind Speed

### EPA Information

All LSI Industries' poles are guaranteed to meet the EPA requirements listed. LSI Industries 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 Industries 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.

**Use ONLY with "Wind Speed Map for ASCE 7-10"**

POLE <sup>1</sup>	Mtg. Height Length (ft)	Wall Thick (ga)	MBOLT CIRCLE			EPA								
			Designator	Dia. (in)	Anchor bolt Dia (in)	110 MPH	115 MPH	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH
4" x 10-ga x 14'	14	10	L	11	0.75	7.7	5.2	4.7	3.9	3.2	2.7	2.3	2.0	1.7
4" x 10-ga x 16'	16	10	L	11	0.75	4.3	3.7	3.2	2.6	2.1	1.8	1.4	1.2	1.0
4" x 10-ga x 18'	18	10	L	11	0.75	7.7	6.8	6.0	5.0	4.2	3.5	3.0	2.5	2.2
4" x 10-ga x 20'	20	10	L	11	0.75	6.0	5.2	4.6	3.7	3.1	2.5	2.1	1.8	1.5
4" x 10-ga x 22'	22	10	L	11	0.75	4.6	3.9	3.3	2.6	2.1	1.7	1.4	1.1	0.9
4" x 10-ga x 24'	24	10	L	11	0.75	3.4	2.7	2.2	1.7	1.3	1.0	0.7	0.5	n/a
5" x 11-ga x 16'	16	11	L	11	0.75	8.7	7.9	7.2	6.0	5.0	4.3	3.7	3.2	2.8
5" x 11-ga x 18'	18	11	L	11	0.75	12.2	11.1	10.1	8.5	7.2	6.1	5.3	4.6	4.0
5" x 11-ga x 20'	20	11	L	11	0.75	10.0	9.1	8.2	6.8	5.7	4.9	4.2	3.6	3.1
5" x 11-ga x 22'	22	11	L	11	0.75	8.1	7.3	6.6	5.5	4.5	3.8	3.2	2.8	2.4
5" x 11-ga x 24'	24	11	L	11	0.75	6.5	5.9	5.3	4.3	3.5	2.9	2.4	2.0	1.7
5" x 11-ga x 26'	26	11	L	11	0.75	5.2	4.6	4.1	3.2	2.6	2.1	1.7	1.4	1.1
5" x 7-ga x 18'	18	7	M	11	1.00	19.7	17.9	16.4	13.8	11.7	10.1	8.8	7.7	6.8
5" x 7-ga x 20'	20	7	M	11	1.00	16.5	15.0	13.7	11.5	9.8	8.4	7.3	6.3	5.6
5" x 7-ga x 22'	22	7	M	11	1.00	14.0	12.7	11.5	9.6	8.1	7.0	6.0	5.2	4.6
5" x 7-ga x 24'	24	7	M	11	1.00	11.8	10.6	9.6	8.0	6.8	5.7	4.9	4.2	3.7
5" x 7-ga x 26'	26	7	M	11	1.00	9.9	8.9	8.0	6.7	5.6	4.7	4.0	3.4	2.9
5" x 7-ga x 28'	28	7	M	11	1.00	8.3	7.4	6.7	5.4	4.5	3.7	3.1	2.7	2.3
5" x 7-ga x 30'	30	7	M	11	1.00	6.8	6.1	5.4	4.4	3.6	2.9	2.4	2.0	1.7

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### Note:

1- Poles shorter than these listed here in for each gauge have EPA rating equal to or greater than what is provided in this table. To Confirm EPA ratings on shorter poles, contact LSI Industries.