



SPARTAN SPORTS LIGHTING

SPUN CONCRETE POLE

At the heart of the Spartan Sports Lighting Assembly is a prestressed, spun concrete pole, providing a clean look that is easy to install and requires zero maintenance.

Manufactured by StressCrete®, this highly durable, lifetime warrantied solution delivers superior quality for decades of athletes, spectators, and families to enjoy.



PRODUCT FEATURES

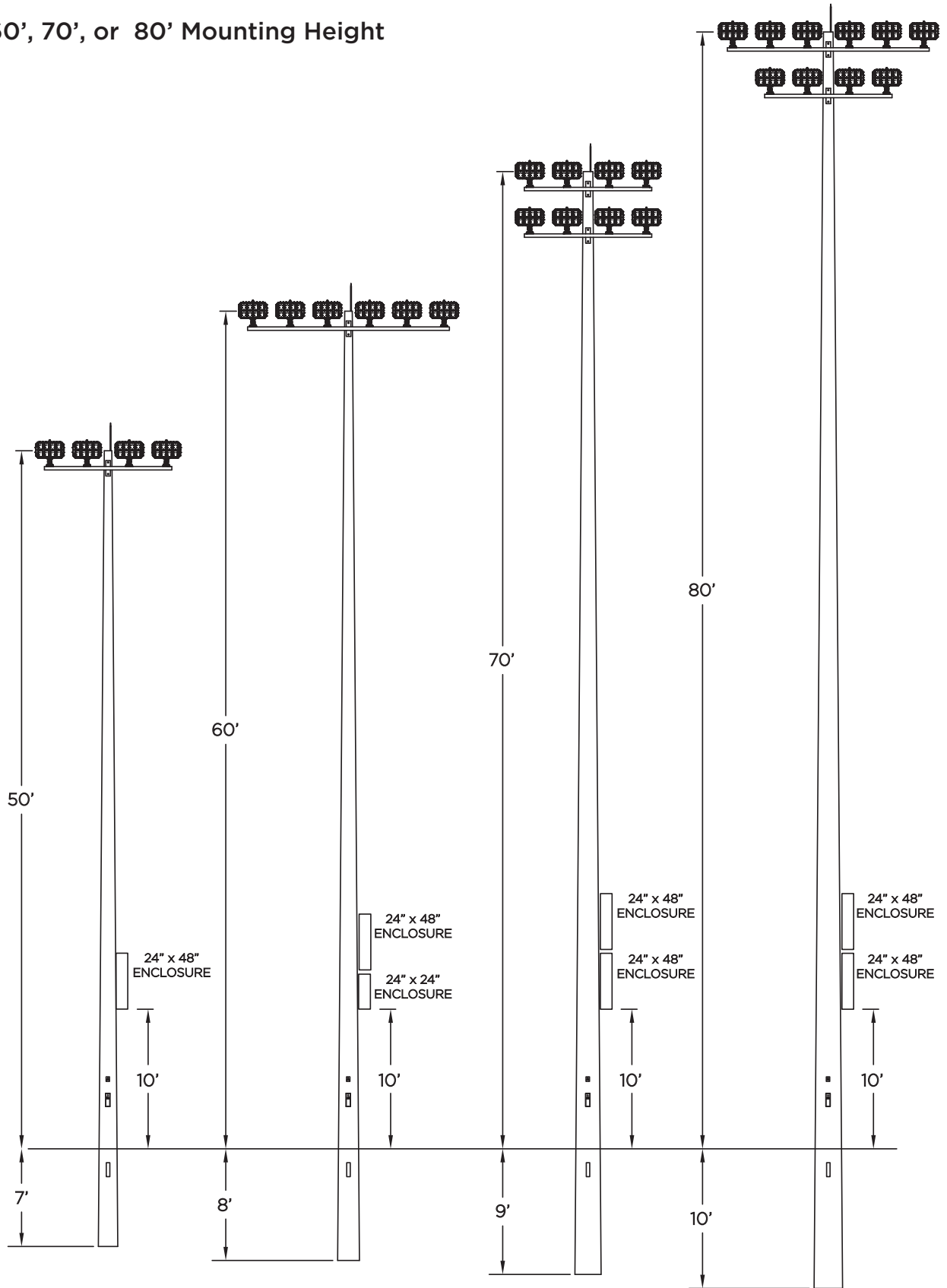
- Direct buried embedment for quick, easy, and cost-effective installation
- Raceway used to conceal wiring harnesses
- Mounting heights available up to 100 feet
- Zero maintenance
- Does not lose strength over time
- Resistant to:
 - Fatigue Cracking
 - Corrosion and Rot
 - Extreme Weather Events
- Adheres to CSA, ANSI, AASHTO, and ASTM Standards
- Lifetime Warranty



RECOMMENDED CONFIGURATIONS

SPORTS LIGHTING POLES

50', 60', 70', or 80' Mounting Height



Note: Above information details represents our standard pole options.
Other heights and strengths are available at SpartanSL.com under "Resources" or by contacting Spartan Sports lighting.

TECHNICAL DATA

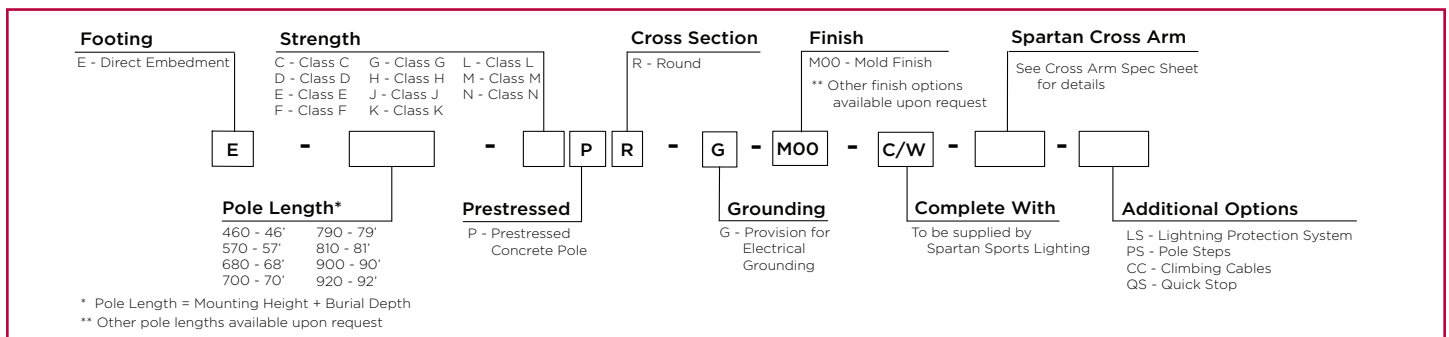
SPORTS LIGHTING POLES

Note: The following chart represents our standard pole options. Other heights and strengths are available at SpartanSL.com under "Resources" or by contacting Spartan Sports lighting.

| Pole Catalog Number | Overall Pole Length (ft.) * | Pole Tip Diameter (Inches) | Pole Butt Diameter (Inches) | Nominal Pole Weight (lbs.) | Maximum EPA (sq. ft.) | | | | | | | Maximum Weight of Attachments |
|------------------------------|-----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------|---------|---------|---------|---------|---------|---------|-------------------------------|
| | | | | | 90 mph | 100 mph | 110 mph | 120 mph | 130 mph | 140 mph | 150 mph | |
| 50' Mounting Height * | | | | | | | | | | | | |
| E-570-DPR-G | 57' 0" | 6.5 | 16.76 | 5318 | 27 | 21 | 16 | 12 | 9 | 7 | 5 | 600 |
| E-570-EPR-G | 57' 0" | 6.5 | 16.76 | 5372 | 37 | 29 | 23 | 18 | 14 | 11 | 9 | 600 |
| E-570-FPR-G | 57' 0" | 6.5 | 16.76 | 5414 | 50 | 39 | 31 | 25 | 20 | 16 | 13 | 600 |
| E-570-GPR-G | 57' 0" | 8.25 | 18.51 | 6801 | 65 | 51 | 41 | 33 | 26 | 21 | 17 | 600 |
| E-570-HPR-G | 57' 0" | 8.25 | 18.51 | 6847 | 83 | 65 | 52 | 42 | 35 | 29 | 24 | 600 |
| E-570-JPR-G | 57' 0" | 8.25 | 18.51 | 6934 | 103 | 82 | 66 | 54 | 44 | 37 | 31 | 600 |
| 60' Mounting Height * | | | | | | | | | | | | |
| E-680-DPR-G | 68' 0" | 6.5 | 18.74 | 7044 | 23 | 17 | 13 | 9 | 6 | 4 | 2 | 1000 |
| E-680-EPR-G | 68' 0" | 6.5 | 18.74 | 7123 | 33 | 25 | 19 | 15 | 11 | 8 | 6 | 1000 |
| E-680-FPR-G | 68' 0" | 6.5 | 18.74 | 7164 | 44 | 34 | 27 | 21 | 17 | 13 | 10 | 1000 |
| E-680-GPR-G | 68' 0" | 8.25 | 20.49 | 8873 | 59 | 46 | 36 | 28 | 22 | 17 | 14 | 1000 |
| E-680-HPR-G | 68' 0" | 8.25 | 20.49 | 8943 | 76 | 60 | 47 | 38 | 30 | 24 | 20 | 1000 |
| E-680-JPR-G | 68' 0" | 8.25 | 20.49 | 9060 | 96 | 75 | 60 | 49 | 40 | 32 | 27 | 1000 |
| E-680-KPR-G | 68' 0" | 9.5 | 21.74 | 10236 | 117 | 92 | 74 | 60 | 49 | 40 | 33 | 1000 |
| 70' Mounting Height * | | | | | | | | | | | | |
| E-790-GPR-G | 79' 0" | 8.25 | 22.47 | 11190 | 54 | 41 | 32 | 24 | 18 | 14 | 10 | 1200 |
| E-790-HPR-G | 79' 0" | 8.25 | 22.47 | 11288 | 70 | 54 | 42 | 33 | 26 | 20 | 16 | 1200 |
| E-790-JPR-G | 79' 0" | 8.25 | 22.47 | 11429 | 89 | 69 | 55 | 44 | 35 | 28 | 23 | 1200 |
| E-790-KPR-G | 79' 0" | 9.5 | 23.72 | 12811 | 110 | 86 | 68 | 55 | 44 | 36 | 29 | 1200 |
| E-790-LPR-G | 79' 0" | 9.5 | 23.72 | 12961 | 133 | 105 | 84 | 68 | 55 | 45 | 37 | 1200 |
| E-790-MPR-G | 79' 0" | 11.25 | 25.47 | 14579 | 159 | 126 | 101 | 82 | 68 | 56 | 47 | 1200 |
| E-790-NPR-G | 79' 0" | 13 | 27.22 | 16124 | 186 | 147 | 118 | 95 | 78 | 65 | 54 | 1200 |
| 80' Mounting Height * | | | | | | | | | | | | |
| E-900-GPR-G | 90' 0" | 8.25 | 24.45 | 13753 | 49 | 37 | 27 | 20 | 14 | 10 | 6 | 1200 |
| E-900-HPR-G | 90' 0" | 8.25 | 24.45 | 13876 | 65 | 49 | 38 | 29 | 22 | 17 | 12 | 1200 |
| E-900-JPR-G | 90' 0" | 8.25 | 24.45 | 14044 | 83 | 64 | 50 | 39 | 31 | 24 | 19 | 1200 |
| E-900-KPR-G | 90' 0" | 9.5 | 25.7 | 15637 | 103 | 80 | 62 | 49 | 39 | 31 | 25 | 1200 |
| E-900-LPR-G | 90' 0" | 9.5 | 25.7 | 15811 | 125 | 98 | 78 | 62 | 50 | 40 | 33 | 1200 |
| E-900-MPR-G | 90' 0" | 11.25 | 27.45 | 17677 | 150 | 117 | 93 | 75 | 60 | 49 | 40 | 1200 |
| E-900-NPR-G | 90' 0" | 13 | 29.2 | 19430 | 176 | 138 | 110 | 88 | 72 | 59 | 48 | 1200 |

* Poles are generally buried 10% of the mounting height plus 2 ft. in good soil conditions. For medium to poor soil conditions, embedment depths are assumed at 10% of the mounting height plus 4 ft.; however, it is recommended that, in locations with high pole loadings/poor soil conditions, a structural engineer determines adequate bearing strength. Please contact Spartan Sports Lighting for additional information. Footings are dependent upon soil strengths and must be sized to withstand the applied pole loadings.

HOW TO ORDER



CERTIFICATION, DESIGN, MATERIALS & MANUFACTURING SPECIFICATIONS

SPORTS LIGHTING POLES

Certifications

These specifications apply to the manufacture of centrifugally spun, prestressed, reinforced concrete poles by StressCrete. This method of manufacturing ensures a minimum compression of concrete, resulting in unsurpassed durability. The manufacturer shall have a minimum of 60 years experience in the design and production of spun concrete poles, and meet the following standards and specifications:

1. The manufacturing company shall be certified by Canadian Standards Association (CSA) to CSAA14 (latest revision).
2. Poles shall be designed to AASHTO-LTS (latest revision) to withstand a 3 second gust wind speed that is determined by geographical area utilizing the AASHTO wind map and by a licensed engineer.
3. Poles shall be designed/manufactured in accordance with:
 - a. CSA-A14: Concrete Poles (latest revision)
 - b. ASTM-C1089: Standard Specification for Spun Cast Prestressed Concrete Poles (latest revision)

Design

1. Poles shall be designed and constructed with all wiring and grounding concealed within the pole. Any apertures such as handholes, couplings, wiring apertures, etc. shall be cast into the pole during the manufacturing process.
2. All cable entry holes to follow approval drawings and be free from sharp edges for passage of electrical wiring.
 - a. 3" x 12" or 4" x 10" conduit opening centered below grade (or as specified).
 - b. A 3.5" x 10.5" high density, cast, zinc handhole frame with a flush zinc cover (location as specified).
 - c. Wiring aperture for a pre-wired cross arm to be suitable for the diameter of the pole and dependant on the driver location within the assembly design.
 - d. Poles to be grounded by #6 stranded copper wire.
3. All poles shall be provided with a fish wire to facilitate cable installation.

Materials

1. Concrete
 - a. 28-day compressive strength of 9,500 psi.
 - b. TYPE I or TYPE IO as per ASTM-C150.
 - c. Minimum $\frac{3}{4}$ " concrete coverage between reinforcing steel and pole surfaces.
 - d. Water reducers, retarders, or accelerating admixtures shall conform to ASTM-C494. Air entrainment and efflorescence control shall also be used.
2. Internal Caging
 - a. Deformed Reinforcing Steel- Grade 75 rebar as per ASTM-A615 and CSA G30.12.
 - b. Prestressing Steel- Uncoated to $\frac{1}{2}$ " 270 k.s.i.-7-wire, stress relieved strand as per ASTM-A416 and CSA G279.
 - c. Spiral Reinforcement- Conform to ASTM-B240 and not be less than either 0.128" or 0.148" diameter (depending on the class).

Manufacturing

1. Prestressing steel reinforcement to be stressed to a maximum of 70% ultimate capacity.
2. Molds to be spun 300-350 rpm for 6-15 minutes.
3. Poles manufactured to have a continuous taper of 0.18" per foot of length.
4. A concrete cylinder test shall be performed for each 100 cubic yards of concrete poured.

WARRANTY

Spartan Sports Lighting provides a limited Lifetime Warranty for its spun concrete sports lighting poles to be free of defects in materials and workmanship. This warranty is not transferable and is applicable only to the original purchaser. For full warranty details, please see the Spartan Sports Lighting Pole Warranty document.