



SAFE

STADIUM AND FACILITY EVALUATION

Sports Lighting Support Structures...What Do You Use?

In the sports lighting industry, Stadium and Facility Evaluation (SAFE) has assisted our customers in maintaining all types of structures. We have seen every type of lighting support structure the industry has to offer. But one common, important theme remains for all of them - all structures, regardless of type, require routine inspection, assessment, and maintenance to ensure their longevity and the safety of the public. In fact, ASCE Standard 72-21, *Design of Steel Lighting System Support Pole Structures*, requires this. What different types of support structures do you use? Are you inspecting and maintaining them?

Steel Anchor Based Poles:

- Tapered, round steel or polygonal shape with slip joints and welded base connection
- Supporting foundation and anchor rods
- Hot dip galvanized, painted, and weathering steel coating options
- Heights ranging to 200 ft
- Commonly used

Musco Steel/Precast Concrete Base Poles:

- Tapered round steel with slip joints
- Precast concrete direct burial base
- Hot-dip galvanized finish and painted coating options
- Heights ranging to 200 ft
- Commonly used

Steel Direct Burial Poles:

- Direct burial into the ground with coating for protection
- Other pole attributes similar to steel anchor-based
- Not as popular as other steel alternatives

Wood Poles:

- Originated in the electrical distribution industry
- Direct burial with various species and preservatives available
- Heights ranging to 80 ft
- Low-cost alternative

Concrete Poles:

- Prestressed, spun concrete direct burial
- Very durable but heavy
- Heights ranging to 120 ft
- Not as commonly used

Lattice Structures:

- Tower consisting of steel members such as rounds, angles, and plate
- Anchor-based or direct buried into concrete foundation
- Square cross section shape
- Heights ranging to 100 ft
- Not common application due to cost and complex assembly

Call **SAFE** today at 570-359-3293 so we can support you in maintaining this critical infrastructure!