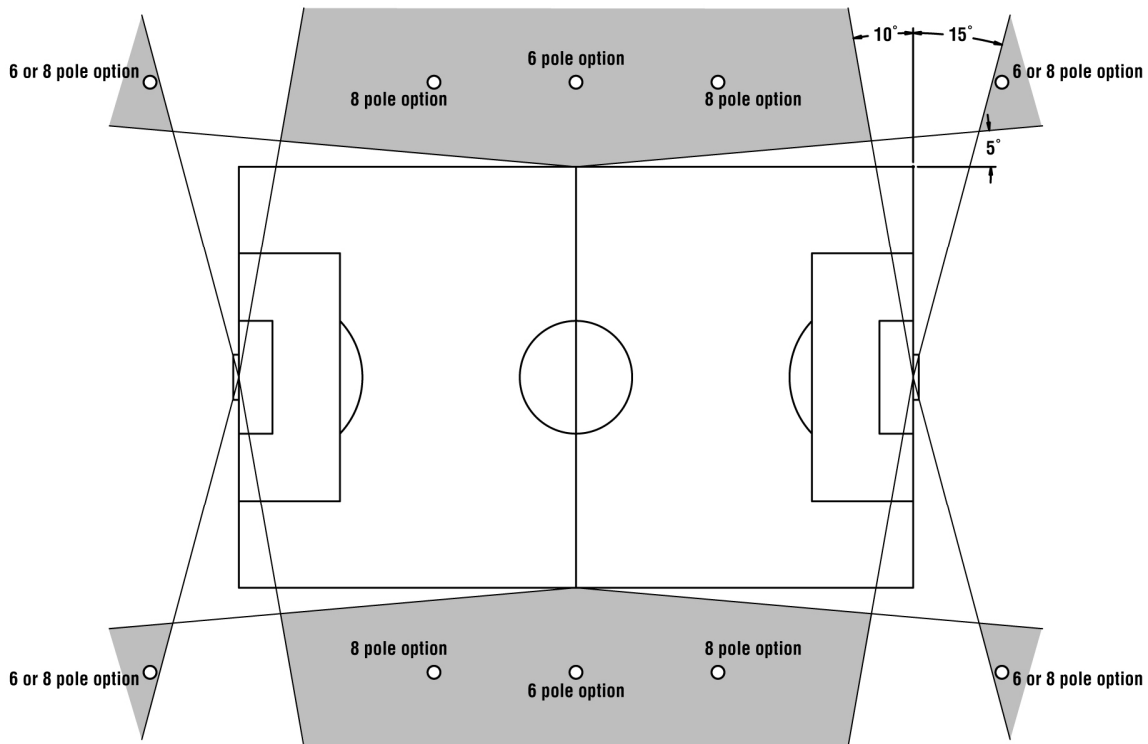




Summary: Following these recommended best practices will help ensure quality of light needed for safety of participants, enjoyment of spectators, and quality national television broadcasts, as required.

Horizontal light levels: 100 footcandles
Horizontal uniformity: 1.7:1
Vertical light levels: 100 footcandles to center main side high camera
60 footcandles to end line camera
Vertical uniformity: 1.7:1 to main camera
Grid spacing: 30 ft x 30 ft

Recommended pole placement:



1. Special consideration for lighting placement is given to stadiums with customized roof mount potential.
2. Shaded areas indicate recommended pole location. All poles should be at least 20 feet from sideline.
3. The sizing of soccer fields should follow these recommended guidelines: Width - 65-80 yards, Length - 110-120 yards, Optimum size - 120 yards x 75 yards, and any new facilities should be a minimum size of 115 yards x 70 yards.
4. Setback of middle poles will depend on the presence of bleachers.
5. Outside poles should be located beyond end line. Optimum placement for TV is 15 degrees or greater off the end line for an end camera.
6. Pole placement and aiming angles shall be designed to minimize glare for players, spectators, and television cameras.
7. The ratio of key light to backlight main camera levels should be between 1:1 and 1.5:1. A ratio of 1:1 is preferred.
8. For new facilities or upgrades, it is recommended to consult a lighting professional for optimal pole placement.