

Sports Lighting Footcandle Standards

Class I Footcandle Standards

Recommended illuminance level:

Horizontal illuminance: 100 fc. CV = 0.13 or less. ($E_{max}/E_{min} = 1.7:1$ or less)

Illuminance readings should be taken at a 1 m (3') elevation on a 9m x 9m (30' x 30') grid.¹

Class II Footcandle Standards

Recommended illuminance level:

Horizontal illuminance: 50 fc. CV = 0.17 or less. ($E_{max}/E_{min} = 2.0:1$ or less)

Illuminance readings should be taken at a 1 m (3') elevation on a 9m x 9m (30' x 30') grid.¹

Class III Footcandle Standards

Recommended illuminance level:

Horizontal illuminance: 30 fc. CV = 0.21 or less. ($E_{max}/E_{min} = 2.5:1$ or less)

Illuminance readings should be taken at a 1 m (3') elevation on a 9m x 9m (30' x 30') grid.¹

Class IV Footcandle Standards

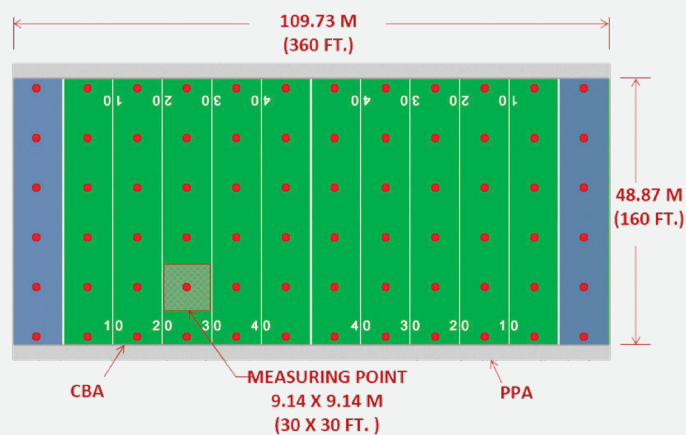
Recommended illuminance level:

Horizontal illuminance: 20 fc. CV = 0.25 or less. ($E_{max}/E_{min} = 3:1$ or less)

Illuminance readings should be taken at a 1 m (3') elevation on a 9m x 9m (30' x 30') grid.¹



Football field Typical Pole Layout¹



Football Calculation Grid Layout¹

1. IES RP-6-15, page 38