



Lighting a football field

Because recreational football is usually played in the evening after work, effective lighting maximizes the opportunity for people to take part in the game.

Although the lighting level will obviously be lower than for broadcasted matches, the lighting quality should remain high in terms of uniformity, visual comfort and limitation of obtrusive light, especially in residential areas where leisure sports facilities are often located.

These types of facilities will usually be stand-alone, in residential areas, with little or no spectator capacity. The lighting for non-televised events should be planned so that the horizontal surface of the pitch can be illuminated uniformly regardless of the pole arrangement chosen.

The poles must be positioned outside the normal direction of view for players with regard to their alignment with both goal lines and touch lines.

Source: Society of Light and Lighting UK

Non-televised football lighting recommendations

EN12193 Requirements

	Class		
	I	II	III
Horizontal Illuminance (Lux)	500	200	75
Uniformity (Min/Ave)	0.7	0.7	0.5
Glare Rating	50	50	55

Recommendations for televised events

Major events

	Horizontal illuminance	Uniformity Min/Ave	Uniformity Min/Max	Vertical Illuminance	Uniformity Min/Ave	Uniformity Min/Max	Colour Rendering	Glare Rating
HDTV	1500-3000	0.8	0.7	2200	0.7	0.6	>90	<50
Slow-motion Camera	1500-3000	0.8	0.6	1800	0.7	0.5	>80	<50
Fixed Camera	1500-3000	0.8	0.6	1400	0.7	0.5	>80	<50
Mobile Camera	1500-3000	0.8	0.6	1200	0.5	0.3	>80	<50

Average horizontal and vertical illuminance ratios: It is recommended that the ratio for horizontal illuminance (Field of Play) is between 0.75 and 1.5 of the vertical illuminance for cameras. Where there is HDTV all horizontal values for other cameras are as for HDTV

National events

	Horizontal illuminance	Uniformity Min/Ave	Uniformity Min/Max	Vertical Illuminance	Uniformity Min/Ave	Uniformity Min/Max	Colour Rendering	Glare Rating
Camera	1000-2000	0.7	0.5	1000	0.6	0.4	>80	<50

Measurements should be taken 1.5 m above the playing surface.

Luxtronik offers Football LED lighting that emits bright, uniform illumination, so matches can be played at any time of the day or night with great visibility. Our high-quality LED luminaires are used on multiple football fields and sports grounds around the world

Recommended Products



APOLLO (FL)
60-800w



JUPITER (FLS)
400-1500w



HERCULES (PLS)
400-1500w

For more information or project and lighting design support, please contact our team sales@luxtronik-tech.com