



Lighting a rugby field

The lighting should provide uniform illumination over the full pitch, appropriate to the proposed class of competition. It should also ensure that the full flight of the ball is visible while providing good viewing conditions for players, officials and spectators.

For competitions, the lighting requirements will probably be dictated by the viewing requirements of spectators, which in turn are related to the viewing conditions and spectator capacity of the sports ground. Various lighting systems may be suitable for rugby grounds and stadia. In the provision of any lighting system, thought should be given to reduce visual obstruction of the event for spectators wherever possible.

Care should be taken to ensure that shadows are not cast onto the pitch from floodlights located behind grandstand rooflines. It is permissible to place poles in line with or close to the scoring (try) line as poles located close to this line can reduce shadowing from the high goal posts.

Source: Society of Light and Lighting UK

Non-televised rugby lighting recommendations

EN12193 Requirements

	Class		
	I	II	III
Horizontal Illuminance (Lux)	500	200	75
Uniformity (Min/Ave)	0.7	0.6	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 Rugby LED lighting that emits bright, uniform illumination, so matches can be played any time of the day or night with great visibility. Our high-quality LED luminaires are used in Rugby fields, stadiums 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