



Goals: 1. Quality TV Broadcasts: To establish best practices for lighting televised NCAA events, providing quality broadcasts within a reasonable budget. The light level expectations are applicable for both SD and HD broadcast.

2. Value-based Lighting System: To provide recommended best practices for lighting college level sporting events with considerations for quality lighting for player safety; reduced energy, maintenance and life-cycle costs; and environmental sensitivity.

Considerations: 1. Size of facility, 2. Level of TV broadcast, 3. Validation of light levels, and 4. Cost consciousness.

		Baseball Infield / Outfield	Basketball*	Football	Ice Hockey	Lacrosse	Soccer	Softball Infield / Outfield	Swimming / Water Polo	Tennis	Track & Field		Volleyball	Wrestling /
											Track	Field	Volleybull	Boxing**
Intercollegiate Play (no broadcast)	Horizontal Footcandles:	70 / 50	80	50	100	50	50	70 / 50	50	75	30	50	80	80*
	Horizontal Uniformity:	2:1 / 2.5:1	2:1	2:1	2.5:1	2:1	2:1	2:1 / 2.5:1	2.5:1	1.7:1	3:1	3:1	2:1	2:1
	Typical Seating:	N/A	N/A	Under 5K	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pole position:	6+ poles	N/A	4+ poles	N/A	4+ poles	4+ poles	4+ poles	N/A	4+ poles	4+ poles	4+ poles	N/A	N/A
	Horizontal Footcandles:	100 / 70	80	75	100	75	75	100/70	75	75	75	75	80	80*
Regional Broadcast	Horizontal Uniformity:	1.5:1 / 2:1	2:1	2:1	2:1	2:1	2:1	1.5:1 / 2:1	2:1	1.7:1	2:1	2:1	2:1	2:1
	Camera #1	1st & 3rd Bases	Center main side	50 yd line	Center main side	Center main side	Center main side	1st & 3rd Bases	Center main side	High End	Center main side	Center main side	Center main side	Center main side
	Vertical Footcandles:	70 / 40	75	75	75	75	75	70 / 40	75	75	75	75	75	75
	Vertical Uniformity:	N/A	2:1	2:1	2:1	2:1	2:1	N/A	2:1	2:1	2:1	2:1	2:1	2:1
	Camera #2	High Home Plate	End	End Zone	End	End	End	High Home Plate	End	Net	N/A	N/A	End	End
	Vertical:	70 / 40	45	45	45	45	45	70 / 40	45	45	N/A	N/A	45	45
	Typical Seating:	N/A	N/A	5 - 25K	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pole position:	6+ poles	N/A	6+ poles	N/A	6+ poles	6+ poles	6+ poles	N/A	4+ poles	6+ poles	6+ poles	N/A	N/A
National Broadcast	Horizontal Footcandles:	Same as Regional Broadcast	100	100	100	100	100	Same as Regional Broadcast	100	100	100	100	100	100
	Horizontal Uniformity:		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
	Camera #1		Center main side	50 yd line	Center main side	Center main side	Center main side		Center main side	High End	Center main side	Center main side	Center main side	Center main side
	Vertical Footcandles:		100	100	100	100	100		100	100	100	100	100	100
	Vertical Uniformity:		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1		1.7:1	1.7:1	1.7:1	1.7:1	1.7:1	1.7:1
	Camera #2		End	End Zone	End	End	End		End	Net	N/A	N/A	End	End
	Vertical Footcandles:		60	60	60	60	60		60	60	N/A	N/A	60	60
	Typical Seating:		N/A	25 - 45K	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A
	Pole position:		N/A	6+ poles	N/A	6+ poles	6+ poles		N/A	4+ poles	6+ poles	6+ poles	N/A	N/A
National Championship	Horizontal Footcandles:	125 / 100	125	125	125	125	125	125 / 100	125	125	125	125	125	125
	Horizontal Uniformity:	1.3:1 / 1.7:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.3:1 / 1.7:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
	Camera #1	1st & 3rd Bases	Center main side	50 yd line	Center main side	Center main side	Center main side	1st & 3rd Bases	Center main side	High End	Center main side	Center main side	Center main side	Center main side
	Vertical Footcandles:	90 / 50	125	125	125	125	125	90 / 50	125	125	125	125	125	125
	Vertical Uniformity:	N/A	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	N/A	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1	1.5:1
Final Site	Camera #2	High Home Plate	End	End Zone	End	End	End	High Home Plate	End	Net	N/A	N/A	End	End
	Vertical Footcandles:	90 / 50	75	75	75	75	75	90 / 50	75	75	N/A	N/A	75	75
	Vertical Uniformity:	N/A	2.5:1	2.5:1	2.5:1	2.5:1	2.5:1	N/A	2.5:1	1.7:1	N/A	N/A	2.5:1	2.5:1
	Typical Seating:	N/A	N/A	45K+	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Pole position:	6+ poles	N/A	6+ poles	N/A	6+ poles	6+ poles	6+ poles	N/A	4+ poles	8+ poles	6+ poles	N/A	N/A

*Refer to NCAA
Basketball
Championships
Best Lighting
Practices for
television
broadcast located
under the
Basketball link

N/A

**Competition is
typically held at the
same venue as
basketball or
volleyball

Notes

- 1. All footcandle levels are target minimum averages
- 2. New lighting system designs are recommended to use 0.7 Recoverable Light Loss Factor or Constant Illumination
- 3. Lamp Characteristics
- a. Minimum color temperature must be 3600 degrees Kelvin
- b. Minimum Color Rendering Index (CRI) must be 65
- 4. Refer to the NCAA Broadcast Lighting Requirements for additional information
- 5. Refer to sport and broadcast specific documents for design examples and verification forms

Contact NCAA at 317/917-6222 or www.NCAA.com with questions.