



03.12.2024

Central Park Netball Court Lighting

The Netball Court Lighting proposal, as part of the pavilion and grounds upgrade as designed by Davidson Architecture has been done to meet AS 2560.2:2021 Sports lighting : Specific applications Netball and basketball, inclusive of pole location, height and LTP's (Light Technical Parameters).

The nominated level of play- Mid level local and regional competition, high level training.

Table 2.9.1 — LTPs for netball and basketball

Level of play	Average horizontal maintained illuminance (\bar{E}_h)	Minimum horizontal uniformity		Maximum glare rating (GR)	Minimum colour rendering index (R_a)
		(E_{hmin}/\bar{E}_h) (U_1)	(E_{hmin}/E_{hmax}) (U_2) ^b		
Recreation or training, and low-level local competition	100	0.50	0.30	50	65
Mid-level local and regional competition, high level training	200	0.60	0.40	50	65
International and national competition with large spectator galleries ^a	500	0.70	0.50	45	65

^a International and national competitions are rarely (if at all) played on outdoor courts.
^b Where two or more courts are adjacent, and with luminaires operating simultaneously U_2 may be reduced by an absolute value of 0.1, e.g. from 0.30 to 0.20 for low level competition.

Whilst an 8.0M pole height was an option and would comply with the Standard, after consultation with the Council a 12M lighting pole option was adopted to provide a premium installation (less shadowing) and to also match a nearby installation.

In addition to compliance to the LTP's for Netball, the installation was tested for compliance to AS/NZS4282:2023 Control of the obtrusive effects of outdoor lighting. Level A3 Non-Curfew, inclusive of upward waste light, with all luminaires set at initial lamp lumens.

Note, that compliance to both AS 2560.2 and AS/NZS 4282 can only be guaranteed with the installation being installed as designed, with the nominated luminaires. Alternative lighting solutions should be assessed for compliance.

Regards

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