

FACILITY LIGHTING STANDARDS

OVERVIEW

Clubs involved in Football Brisbane competitions that wish to hold matches at night requiring lighting must have a field that meets the Australian Standards of lighting for football matches [AS 2560.2.3-2007 Sports lighting - Specific applications - Lighting for football (all codes)].

This standard requires a Minimum Service Illuminance (Average) of 100 LUX with a Minimum Uniformity Ratio (Min: Ave) of 0.5 and Maximum Glare Rating of 50 for competition matches.

POLICY

Football Brisbane requires the Minimum Service Illuminance (Average) at the commencement of the season to be 100 LUX with a Minimum Uniformity Ration (Min: Ave) of 0.5 and Maximum Glare Rating of 50.

Clubs that submit an audit that notes the Minimum Service Illuminance (Average) lux level to be under 110 lux will need to have the field audited annually. Audits that pass with a Minimum Service Illuminance (Average) over 110 lux (regardless of how high) are required to re-submit a lighting audit every 2 years.

PROCESS

Where a club wishes to schedule matches at times requiring lighting, the Club must ensure that it has certified lighting system in line with the Australian Standard.

- Certification is based on an audit of the lighting system by a suitable consultant.
- The Club must pay the cost of the audit

The audit is to be completed by a qualified and experienced lighting consultant in floodlighting for sports purposes, especially football. Consultants will include but are not limited to Members of the Illuminating Engineering Society of Australia & New Zealand Limited (IES – The Lighting Society).

As part of the audit, the lighting consultant must:

- undertake a review of the installed equipment to assess its characteristics and current potential for compliance with the Australian Standard.
- make such calculations as are necessary to assess compliance with the required Glare Rating.
- undertake an on-field audit using appropriate equipment measuring in accordance with Clause 6.3 of the Australian Standard and assess compliance with the lux levels and their uniformity – noting that for this purpose of Certification:
 - the tests must cover the entire field of play within the marked lines – this area is referred to as the Principal Playing Area** (tests across half field only are not acceptable);

**Clause 3.2 of the Australian Standard AS2560.2.3-2007 (2.3 Lighting for Football) defines the Principal playing area (PPA) as "All portions of the playing surface within the boundary lines...but excluding the areas within the goal nets in the case of soccer."

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- identify any issues of concern regarding the uniformity of vertical illuminance affecting illumination of the ball on medium and high trajectory paths.
- identify any issues of concern relating to the lighting system's reliability, including a check of the switchboard/lighting control systems to confirm that they can be fully secured and are in good working order.
- report to Football Brisbane on compliance with the Australian Standard or otherwise and any other matters affecting the performance and reliability of the system.

The lighting consultant's report to Football Brisbane must include details of the installation, measurements obtained in the on-field audit and the calculation of maintained average lux level and uniformities. This shall include comments on uniformity of vertical illuminance and glare in relation to the existing pole heights, luminaire aiming and total system reliability.

Football Brisbane will provide a prescribed audit form for the lighting consultant to complete which will provide space for the required information. The test readings must be attached to this form. The form must be completed and signed by the lighting consultant.

Certification is subject to satisfactory compliance with the Australian Standard and acceptable reliability.

Once a signed Certification by an approved lighting consultant is submitted to Football Brisbane with all information on the form and with the required attachments, Football Brisbane will check the certification for completeness and accuracy. If Football Brisbane is satisfied the information and lighting performance meet Football Brisbane's requirements, Football Brisbane will register the field as compliant for matches requiring lighting.

Football Brisbane reserves the right to seek additional information or testing from the Club or lighting consultant, to be provided at the Club's cost. Football Brisbane will not approve fixtures that require lighting without the Certification and subsequent Football Brisbane registration of the field.

ONGOING COMPLIANCE REQUIREMENTS

The Club is required to ensure that the Australian Standard is always met for night Matches.

Where a Club becomes aware that lighting for a Match is not likely to meet the Australian Standard it must immediately notify Football Brisbane in writing of that fact, whereby Football Brisbane will arrange a change of fixture.

Where a referee has made a report in relation to the adequacy of the lighting at a field or Football Brisbane has concerns that a field may not currently meet the Australian Standard, Football Brisbane may engage a suitable lighting consultant to undertake a field audit to test compliance as detailed above.

If the lighting is found to meet the Australian Standard Football Brisbane will bear the cost of the audit. If the lighting is not found to meet the Australian Standard, the Club is responsible for the costs of the audit and

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Football Brisbane approval for fixtures requiring lighting on the field will be removed until the lighting is maintained, repaired or modified to comply with the Australian Standard.

If a Match is unable to commence, halted temporarily or abandoned due to the failure of the lighting to meet the Australian Standard or failure to function at all during a Match (Lighting Failure), the Club must provide evidence to Football Brisbane as to the causes of such failure.

If the Lighting Failure was due to circumstances beyond the control of the Club, including network system failure, weather, accidental damage or offsite equipment failure or any other extraordinary circumstances accepted by Football Brisbane, no penalty will be imposed and subject to Football Brisbane being satisfied that the lighting for the Club's subsequent night fixtures will meet the Australian Standard, those fixtures will remain as scheduled.

If the Lighting Failure was due to any other reason, including deliberate interference, the Club may be penalised subject to Football Brisbane's discretion.

TIPS & SUGGESTIONS

- It is the club's responsibility to ensure a safe on-field environment for its players when training and during competition. The club should ensure that the floodlighting at its facility continually meets the standards as set out in this Guide.
- If the club or the facility owner (eg local Council) suspect a deterioration in the floodlighting, then an audit and subsequent repair should be carried out.

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