

SJB FLOODLIGHTING

DESIGN - INSTALL - MAINTAIN

13 Brograve Close Galleywood Chelmsford CM2 8YA.

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Light report:

Name	Power League Manchester (Nicholls)
Contact Details	Simon Mroczek
Date	27-03-2025
Site Address	Nicholls Community sports Ground, Dalberg St, Manchester, M12 6BN

Within two months of the installation of the floodlights, or prior to occupation of the development, whichever is later, a verification report shall be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved light consultant's report. The report shall also undertake post completion testing to confirm that acceptable criteria have been met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the criteria.

Reason - To safeguard the amenities of the occupiers of nearby properties.

Description:

To confirm spillage lighting conforms to the design document and to ensure the LTA standards are met as follows:

All light fittings are required to be manufactured to British and European standards with the associated CE marking. The padel court may be delivered as a 'package kit' from the manufacturer and therefore all the electrical components shall be detailed with a suitable lighting design prior to placing any order for the works. All light fittings shall be installed to create a minimum 6m high clear space above the padel court playing area. Padel court lighting designs will be produced using dedicated software by competent persons (consultants or manufacturers) with relevant experience in this regard. Planning requirements may require schemes to be developed by consultants rather than manufacturers where specific criteria may be stipulated to allow compliance with regulations

Minimum Lighting performance standards for padel courts are defined as follows:-

Outdoor courts: -

Minimum illumination at ground level (Z=0)

National and International
Competition

500 lux (E av) with 0.7 uniformity

Regional competition, school
& recreational use

300 lux (E av) with 0.5 uniformity

Indoor courts

Registered in England No. 6764573

VAT Registration No. 942 9515 04



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In the UK with outdoor tennis courts being usually lit to a standard higher than the minimum stated above then Clubs should undertake playing testing of floodlit padel courts to establish suitability for their scheme or may wish to adopt a higher standard.

While the minimum levels are stated above a 10% over performance should be taken into consideration when undertaking the initial design i.e. (0.9 maintenance factor).

Light levels and spill levels:

As we can see from the lighting levels taken on site the required levels have been met for a national level lighting which will allow for competition standards and has considered the maintenance factor required.

Due to the nature of the site location and restricted access to the surrounding industrial area spillage light levels have been taken on the perimeter of the property and are in line with the lighting assessment provided by Polaris. We would assess the area as an E3 area as per the ILP guidance but has been designed in accordance and achieves E2 levels as per image below.

The lighting installed meets the design parameters set out by the Polaris lighting assessment and considers all maintenance factors. Spill lighting is also comparable with the design layout and meets the level required.

Environmental Zones

It is recommended that Local Planning Authorities specify the following environmental zones for exterior lighting control within their Development Plans.

Table 2: Environmental zones

Zone	Surrounding	Lighting environment	Examples
E0	Protected	Dark (SQM 20.5+)	Astronomical Observable dark skies, UNESCO starlight reserves, IDA dark sky places
E1	Natural	Dark (SQM 20 to 20.5)	Relatively uninhabited rural areas, National Parks, Areas of Outstanding Natural Beauty, IDA buffer zones etc.
E2	Rural	Low district brightness (SQM ~15 to 20)	Sparsely inhabited rural areas, village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Well inhabited rural and urban settlements, small town centres of suburban locations
E4	Urban	High district brightness	Town / City centres with high levels of night-time activity

- Note 1** Where an area to be lit lies close to the boundary of two zones the obtrusive light limitation values used should be those applicable to the most rigorous zone (see comment below)
- Note 2** Rural zones under protected designations should use a higher standard of policy
- Note 3** Zone E0 must always be surrounded by an E1 Zone
- Note 4** Zoning should be agreed with the local planning authority. Due to local requirements a more stringent zone classification may be applied to protect special / specific areas
- Note 5** SQM (Sky Quality Meter) is referenced by the International Dark Skies Association (IDA). SQM is an instrument used to measure the luminance of the night sky. It is typically used by astronomers to quantify skyglow, using units of magnitudes per square arcsecond. the scale is between 16:00 (a bright night sky) and 22:00 (the least light pollution). The criteria for zone E0 was revised in mid 2019, with the new requirements not being made retrospective
- Note 6** Astronomical Observable Dark Skies will offer clearer views of the Milky Way and of other objects such as the Andromeda Galaxy and the Orion Nebula
- Note 7** Although values of SQM 20 to 20.5 may not offer clear views of astronomical dark sky objects such as the Milky Way, these skies will have their own relative intrinsic value in the UK