

From: Driver, Jonathan
Sent: 16 May 2018 14:47
To: Chisnall, Emma <Emma.Chisnall@havant.gov.uk>
Subject: RE: APP/18/00312 - Stakes Multi Use Games Area

Emma,

I've had a quick look at this. I'm working on the assumption that the "Maximum Horizontal Illuminance" - refers to 'useful light within the MUGA surface', and (total lumens emitted [4 x 3K, = 12K] divided by the area illuminated [375 sq.m]), and is not a metric relating to unwanted horizontal illuminance (spill light) from the luminaire. If this interpretation is incorrect, the lighting may exceed recommended illuminance (25 lux) at nearby properties, and may result in nuisance complaint.

I note that the application gives no indication of the layout &/or design of the installation – e.g. whether the solar panels are to be installed at height, or at ground level, whether the mast height variance is dynamic (i.e. adjust to suit), or essentially fixed post-installation choice; or indeed the intended target installation beam angle for the luminaires, or the kelvin colour temperature.

An increased installation height reduces possibility of overspill, and for this reason, installation as high as possible within the available range would be recommended. A target beam angle of 70 degrees from the vertical would also be recommended, though angling to fall short of the far side of the playing surface (near edges to be illuminated by the closest lamp) would be preferred (i.e. adopting the most 'vertical' possible lighting configuration). Short wavelength light is known to be more disruptive for sleep (I'm thinking of potential disturbance of infants in particular), so a 'warmer' colour temperature would be recommended – 3500K ideal, but ideally not exceeding 4500K.

I was initially concerned about illumination of properties at Lavender Road, but note good screening of taller buildings, and diffuse vegetative screening and solid fencing to the low-rise properties. 2-Storey property at Lantana Cl, and Springwood Avenue are arguably more likely to suffer nuisance from light overspill.

I note the proposed operational hours up to 9pm. This falls within the 'curfew' recommended in guidance, and is realistically likely to be a defining factor for (to avoid) complaints arising, and in determining 'reasonableness' of use in terms of statutory nuisance.

In the absence of any more detailed installation details (e.g. lighting contours), it is recommended that the proposed operational hours are secured by condition, so that at least local residents have an 'absolute' limit on potential disturbance. It may be possible to amend the condition at a later date, provided the installation does not lead to complaints. In the event of justified complaints, 'best practicable means' would be taken to include factors including colour temperature, which for LED lamps may necessitate replacement if a 'too cool' colour temperature is a significant factor.

Hope that's sufficient for your purposes,

Best Regards,

Jon

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