



eb7 ltd
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03 December 2018

Dear Sir / Madam,

Eb7 have been instructed to advise on Light Pollution and related impacts in respect of the proposed Anchor Springs Development in Avon Road, Littlehampton, West Sussex.

The ILP guide "Guidance Notes for the Reduction of Obtrusive Light" GN01:2011 is the document of reference for light pollution for planning. This document gives the following recommendations for a suburban environments (environmental zone E3)

- A maximum Upward Light Ratio (ULR) of 5%. This is the maximum permitted percentage of luminaire flux that goes directly into the sky, contributing to sky glow, which is the brightening of the sky at night;
- Light intrusion relates to the spilling of light beyond the boundary of the property or area being lit. The recommendation is a maximum of 10 lux pre-curfew and 2 lux post-curfew, measured at the centre of the surrounding windows;
- Night time glare is the uncomfortable brightness of a light source when viewed against a darker background. The luminaire intensity should be limited to 10,000 cd pre-curfew and 1,000 cd post-curfew;
- Building luminance due to buildings directly illuminated as a night feature should also be limited to an average of 10 cd/m².

All luminaires, including lamp posts and bollards, will have an Upward Light Ratio of 5% or less, as recommended by the ILP guide, in order to limit the contribution to sky glow.

With regards to light spillage, care has been taken to prevent excessive light from reaching any surrounding residential buildings, which have been identified in yellow in appendix 1. For this purpose, all luminaires located at high level will be provided with appropriate back shields. Therefore, a detailed light intrusion assessment is not deemed necessary. Details of the position of luminaires and the orientation of shields can be found in the appendix.

The provision of back shields will also prevent direct visibility of the luminaires from the surrounding residential windows in order to avoid any night time glare. This renders a detailed luminaire intensity assessment unnecessary.

The proposed buildings will not be illuminated as a night feature, as the purpose of the proposed luminaires are installed to illuminate the parking and pedestrian areas. Only minor residual light is expected to reach the facades of the proposed buildings. Therefore, a building luminance study is not necessary.

In light of the above, we believe that the proposed external lighting scheme will be in line with ILP's recommendations, and that it will not lead to any night time pollution impacts of significance.

Yours sincerely,



Victor Lopez-Rioboo Gil
Daylight Design Consultant
On behalf of EB7

Appendix 1 – Light Pollution Study

Title
Light Pollution Study

- Lamp post
- Lamp post with back shield
- Lamp post with front and back shields
- Bollard
- Neighbouring dwelling

Fig. 2: Legend



Fig. 1: Site plan with luminaires

Project	ANCHOR SPRINGS DEVELOPMENT Avon Road, Littlehampton, West Sussex		
Reference	3107_R01_LP02		
Drawn	VL	Checked	JB
Date	28/11/2018	Rel no.	01
Drawing no.	3107_R01_LP02-1		