

Project: 4790 Persimmon Homes Yatton

Queen Square House
18-21 Queen Square
Bristol
BS1 4NH

Subject: Security Lighting

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1 Introduction

This design note has been prepared in response to the feedback provided on the previous external lighting report (Ref: REP01 r1 in appendix A), that indicated that no security lighting was modelled alongside the street lighting design. The additional security has now been included within our lighting analysis model, using Dialux Evo 12.0, as requested.

The objective of the additional analysis is to show that the light spill within the dark corridors will be maintained below 0.5 lux, with the addition of the security lighting.

1.1 Proposed Fitting and control

8W Wall mounted LED lamp has been proposed as a security lamp, as indicated in the figure 1. These will be controlled via an external PIR sensor, to avoid the security lighting being on for long periods of time.



Figure 1 : Proposed Security Lamp

Technical details of the selected lamp:

- Power Supply :220-240V at 50/60Hz
- Watt :Max 5W LED lamp
- Lamp flux : 575 lm
- Luminous efficacy : 72 lm/W
- CCT : 3114 K
- IP Rating :64
- IK :07

1.2 Proposed Fitting Layout and Results

This lamp is to be mounted at the potential front doors, facing the parking areas, while avoiding the mitigation land.

Please refer to appendix B for the location of each luminaire and the corresponding lux contour levels. The results show areas over the requirement of 0.5lux.