

Project: Proposed New Dwellings at Land West of North Lodge, Codford, Wiltshire**BA12 ONJ – Light Spill Report****Council Comments**

The site is in the core area of this International Dark Sky Reserve. The material considerations therefore include:

** The NPPF, especially paragraphs 189 (“Great weight should be given to conserving and enhancing landscape and scenic beauty in National Parks [...]”) and 198c (“[Planning policies and decisions should] limit the impact of light pollution from artificial light on local amenity, intrinsically dark landscapes and nature conservation.”)*

** Section 84(4) of CRow Act 2000 (“A local planning authority whose area consists of or includes the whole or any part of an area of outstanding natural beauty has power [...] to take all such action as appears to them expedient for the accomplishment of the purpose of conserving and enhancing the natural beauty of the area of outstanding natural beauty or so much of it as is included in their area.” Part of the natural beauty of this National Landscape (NL) is its dark night skies.*

** Section 85 of the CRow Act 2000 (as amended by s.245 of LURA 2023), which obliges relevant authorities to “seek to further the purpose of conserving and enhancing the natural beauty of the area of outstanding natural beauty”. Part of the natural beauty of this NL is its dark night skies.*

** Section 9 (especially DNS A, DNS1 and DNS2) of the Partnership (Management) Plan of this NL which constitutes the constituent LPA’s policies for the NL and through which the LPAs are obliged to reduce light pollution year on year (ie not merely attempt to minimise increases).*

** The location of the development is in the core zone of an IDSR so any external lighting, or internal lighting that shines outside, should comply with the criteria for Environmental Zone E0 as defined by the Institution of Lighting Professionals in its GN01/2021 on the Reduction of Obtrusive Light.*

** This NL’s Position Statement on Light Pollution and Good Practice Guides on Good Lighting.*

Ecology Comments**5. Ecological Enhancements****Post Construction**

- Provision of two bat boxes built-in to the two new dwellings.
- Provision of two bird boxes attached to the two new dwellings.
- New lengths of species-rich native hedgerows will be planted across both proposed residential plots, totalling a length of approximately 135 meters with species including hawthorn *Crataegus monogyna*, beech *Fagus sylvatica*, holly *Ilex aquifolium*, hornbeam *Carpinus betulus* and spindle *Euonymus europaeus*.
- New native tree and shrub planting to be carried out in the retained off-site woodland, within the ownership boundary to the north-west. To include provision of common lime *Tilia x europaea*, hornbeam, field maple *Acer campestre*, hazel *Corylus avellana*, hawthorn, and spindle.

Lighting Design Comments (Oliver Atkins – Inform Consulting Engineers)**Mitigation**

- All external lighting consists of LED downlights with 0° up tilt to bring the effect of sky glow and glare to a minimum. The luminaire specified has received 'Dark Sky Accreditation', meeting the necessary criteria to minimize upward light spill and 100% downlight.
- 2700K luminaires have been selected to reduce the blue light component as to reduce any impact on nocturnal life, with the addition of bat boxes to the new dwellings.
- Light spill shall be controlled via PIR detectors and photocells to ensure the lighting only turns on during appropriate hours of the day/night.
- In addition to controlling the lighting, the photocell and timeclock arrangement shall override automated blinds which are to operate at dusk to prevent internal light spill.
- Please refer to the accompanying Light Spill Report and drawing "IN827(632)001"

Lux Levels

The Relux report demonstrates that all light spills beyond the boundaries of new hedgerows and boundaries will be <0.5lx.

Due to bat box installation, Vertical lighting calculations have been produced to indicate the light spill at first floor level to the bat box positions. This is proven to be 0 Lux.

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