

From: Amanda Scholes on behalf of Planning.Responses
Sent: 07 January 2019 11:36
To: Planning Scanning
Subject: FW: Yeomans Honda Discharge of Conditions - External Lighting Ref FG/171/18/DOC

From: Anita Gardner
Sent: 07 January 2019 11:19
To: Planning.Responses
Subject: FW: Yeomans Honda Discharge of Conditions - External Lighting Ref FG/171/18/DOC

Please add this information to the application

Anita Gardner | Principal Planner, Directorate of Place, Arun District Council | Location: First Floor, Arun Civic Centre, Maltravers Road, Littlehampton, BN17 5LF

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Save the environment - think before you print.

From: Bob Bevan
Sent: 04 January 2019 17:20
To: Carol Reynolds
Cc: Anita Gardner; Kevin Conlon; Steve Duffy; Ali Riza Yozdhanla
Subject: Yeomans Honda Discharge of Conditions - External Lighting Ref FG/171/18/DOC

Dear Carol,

Following our recent conversation regarding Discharge Conditions for the External Lighting we confirm the following;

1. Angled ref. 2 fittings on 'white cottage' boundary a further 5° to 10° to reduce back-spill and potential view of light source You are happy with this statement.
2. Moved new wall-mounted fitting further 'down' (looking at plan) from 'white cottage' boundary to reduce spill and move product further away from being seen You are happy with this statement.
3. Angled ref. 2 fitting on new double-head column which faces toward 'white cottage' boundary -5° to reduce spill. This statement has been amended following our conversation.
4. Instead of altering fitting selection or column heights, I'm suggesting fittings marked '*' could be dimmed to 50% [post-curfew?] using astro timer etc. with additional switched live provided to product as per installation instructions. The new car park lighting will reduce to 50% lux level between 18.00 hrs and 19.00hrs and at 19.00 hours the lighting to the new Car Park will be switched off via time clock.

New lighting plot attached shows this situation with '*' fittings dimmed to 50%. I have shown additional detail including 1 lx boundary which does fall beyond site extent however appears to stop short of actual neighbouring property. After this boundary, spill is more-or-less negligible, especially considering calculation does not include soft/hard landscaping present which would attenuate lighting beyond site even further.

To clarify, with reference the ILP(Institution of Lighting Professionals) Guidance Notes for the Reduction of Obtrusive Light GNO1:2011

Please see Tables 1 & 2 below – using “Zone 2 Rural Surroundings for this area” rather than “Zone 3 Suburban” this suggest a limit of 5 lux pre-curfew and 1 lux post-curfew. The calculation shows that whilst the 1 lux boundary of back light/spill light does extend slightly beyond the site boundary, it does not actually reach the neighbouring property and therefore will be comfortably below the post-curfew limit for light intrusion into windows as per Table 2.

ENVIRONMENTAL ZONES

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

Table 1 – Environmental Zones

Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark	UNESCO Starlight Reserves, IDA Dark Sky Parks
E1	Natural	Intrinsically dark	National Parks, Areas of Outstanding Natural Beauty etc.
E2	Rural	Low district brightness	Village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Small town centres or suburban locations
E4	Urban	High district brightness	Town/city centres with high levels of night-time activity

Table 2 – Obtrusive Light Limitations for Exterior Lighting Installations – General Observers

Environmental Zone	Sky Glow ULR [Max %] ⁽¹⁾	Light Intrusion (into Windows) E_v [lux] ⁽²⁾		Luminaire Intensity I [candelas] ⁽³⁾		Building Luminance Pre-curfew ⁽⁴⁾
		Pre-curfew	Post-curfew	Pre-curfew	Post-curfew	Average, L [cd/m ²]
E0	0	0	0	0	0	0
E1	0	2	0 (1*)	2,500	0	0
E2	2.5	5	1	7,500	500	5
E3	5.0	10	2	10,000	1,000	10
E4	15	25	5	25,000	2,500	25

ULR = Upward Light Ratio of the Installation is the maximum permitted percentage of luminaire flux that goes directly into the sky.

E_v = Vertical Illuminance in Lux - measured flat on the glazing at the centre of the window.

I = Light Intensity in Candelas (cd)

L = Luminance in Candelas per Square Metre (cd/m²)

Curfew = the time after which stricter requirements (for the control of obtrusive light) will apply; often a condition of use of lighting applied by the local planning authority. If not otherwise stated – 23.00hrs is suggested.

* = Permitted only from Public road lighting installations

Kind Regards,
Bob Bevan



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