

RESPONSE SHEET  
**BCA 2010 VOLUME TWO**  
PUBLIC COMMENT DRAFT

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**VOLUME 2 (Residential)**

**3.12.5.5 Artificial lighting (EXISTING TEXT).**

- (a) The *lamp power density* of artificial lighting must not exceed—  
(i) within a Class 1 building, 5 W/m<sup>2</sup> of *floor area*; and  
(ii) on the verandah or balcony attached to a Class 1 building, 4 W/m<sup>2</sup> of *floor area*; and  
(iii) in a Class 10 building, 3 W/m<sup>2</sup> of *floor area*.
- (b) The lamp power of the light fittings must be used rather than a nominal allowance for exposed batten holders.
- (c) Where fluorescent lamps are used they must—  
(i) have an electronic ballast; and  
(ii) be of a type that cannot be retrofitted with an incandescent lamp.
- (d) Halogen lamps must be separately switched from fluorescent lamps.
- (e) Artificial lighting around the perimeter of a building must—  
(i) be controlled by a daylight sensor; or  
(ii) have an average light source efficacy of not less than 40 Lumens/W.
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**3.12.5.5 Artificial lighting**

**Recommended change to draft: General Comment.**

This section to align with the requirements for class 2 and 9 residential sections of buildings as shown in Volume 1. Refer Section J6.2 a) and b)

**Comment/reason for change:** Align residential sections of Volume 1 and Volume 2.

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**Clause: 3.12.5.5 Artificial lighting (b)** The lamp power of the light fittings .....

**Recommended change to draft:** (b) modify text and allow use of either LPD or IPD,

"when designing for the *lamp power density (LPD)* or *illumination power density (IPD)*, the power of the proposed installation must be used rather than nominal allowances for exposed batten / lamp holders and luminaires; and"

**Comment/reason for change:** Clarifies and allows use of either LPD or IPD method and requirements. We note the wording for J6.2(a)(ii) is tricky as there are 2 stages of approval - one for the design and the second after construction. Stating "design" should allow use in the BCA.

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**3.12.5.5 Artificial lighting (c)**

Where fluorescent lamps are used they must—

- (i) have an electronic ballast; and
- (ii) be of a type that cannot be retrofitted with an incandescent lamp.

**Recommended change to draft: (c) (i)**

DELETE REQUIREMENT (i).  
(Retain requirement presently shown as (ii).

**Comment/reason for change:** This is both technology specific and a minimum energy performance MEPS requirement.

The BCA should remain performance based rather than technology specific.

**Comment/reason for change:** Align residential sections of volume 1 and volume 2.

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