

RESPONSE SHEET
BCA 2010 VOLUME TWO
PUBLIC COMMENT DRAFT

Respondent's name: Owen Manley
Organisation: Lighting Council Australia
Contact details: omanley@lightingcouncil.com.au

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/m² of *floor area*; and
(ii) on the verandah or balcony attached to a Class 1 building, 4 W/m² of *floor area*; and
(iii) in a Class 10 building, 3 W/m² 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.
-

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.

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.

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.
