

# Zyla Plus LED Downlight

Reduce eye discomfort and say goodbye to visible and invisible flickering with **HPM's Flicker Free Downlight**.

Flickering light occurs when there are rapid changes in the brightness of lighting, causing it to have a pulsing or unsteady effect, which may cause eyestrain, headaches, visual fatigue<sup>1</sup> and in some cases neurological problems<sup>2</sup>.

90mm  
CUT-OUT

  
**FLICKER  
FREE**

**7W  
DIMMABLE  
LED LIGHT  
TRI-COLOUR**

  
**Up to 35,000h  
LIFE**

  
**IP44**

  
**2,500 V  
Surge  
Protection**

**3** YEAR  
WARRANTY

**LIGHT  
COLOUR  
SELECTOR**

  
WARM  
COOL  
NATURAL



<sup>1</sup> Arnold Wilkins, Brad Lehman. Biological effects and health hazards from flicker, including flicker that is too rapid to see. 2/15/10, IEEE Standard P1789. <http://grouper.ieee.org/groups/1789>.

<sup>2</sup> Fisher, R. S., G. F. A. Harding, G. Erba, G. L. Barkley, and A. Wilkins, "Photic- and pattern-induced seizures: A review for the Epilepsy Foundation of America working group," *Epilepsia*, vol. 46, pp. 1426–1441, Sep. 2005.



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UP TO  
**818**  
LUMENS



DLIFF90TRIDWE - RECESSED FACE

UP TO  
**876**  
LUMENS



LDLFF90TRIDWE - FLUSH FACE

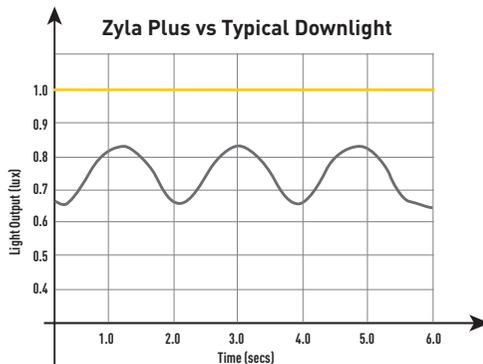
**THIS HPM LED DOWNLIGHT IS SPECIALLY DESIGNED TO BE FREE OF VISIBLE AND INVISIBLE LIGHT FLICKERING.**

## Visible Light Flickering

LED lights can flicker in parts of NSW and QLD, especially when used with a dimmer. This may occur due to the impact of the ripple control signals being injected into the distribution network by electricity providers.

## Invisible Light Flickering

Most residential LED downlights have invisible flickering, which occurs at a frequency which cannot be perceived by the naked eye.



HPM Zyla Plus Flicker Free LED downlight under the same condition exhibits no flickering.

Typical LED downlight with considerable visible flickering due to ripple control injection (off-peak signal).



SCAN FOR MORE  
INFORMATION

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