

8 - Cricket Street, Petrie Terrace – Comment on Trial LED Luminaires

Luminaire

It is assumed this luminaire is a - Pecan Ledway Road Lighting NXT.

Colour

The emitted light is a harsh white that is unnecessary for this residential street.

Brightness

This is a very bright luminaire, possible made more so by the lack of shielding of the LED array. It is too bright for this narrow street. BCC-Energex should publish the illumination data for this luminaire and indicate if it exceeds the minimum level required by the Australian Standard for this category of street.

Glare



This luminaire is intensely glary for pedestrians and vehicle drivers. This may, in part, be due to the Type 4 design and significant proportion of light emitted in to above 80° glare zone.

Luminaire Installation

It appears none of the trial luminaires in this street are installed with the LED array horizontal. It also appears this luminaire does not have any internal mechanism to allow the installation angle to be adjusted to horizontal.

Light Distribution

Cricket Street is very narrow and this luminaire casts a substantial proportion of its lights to the rear and forwards on to private property. The resulting light trespass makes this luminaire unsuitable for such narrow streets. The forward light trespass is exacerbated by the up-tilt angle of installation. The semi cut-off design also means this luminaire directs light beyond the primary task area and may have a higher operating cost than a luminaire with better control that just delivers the light that is needed to the location where it is needed.



While this photo is overexposed it does clearly indicate the wide dispersal of light and high illumination.



This luminaire is very glary for pedestrians and causes significant light trespass.

Overall Assessment as a LED Luminaire for Brisbane-wide Roll-out

This luminaire is a poor choice for narrow Brisbane streets. It's high colour temperature, excessive glare, lack of shielding, semi cut-off design and challenge to install horizontal makes this a poor choice for Brisbane-wide rollout.