

18 - Drake Street, West End – Comment on Trial LED Luminaires

Luminaire

The make and model of this luminaire is unknown.

Colour

This is assumed to be a 4000K LED array and delivers a harsh white light that is unnecessary for this residential street.

Brightness

The level of task area illumination in this street is significantly higher than for neighboring streets. BCC-Energex should publish actual on-site measured illumination data for this luminaire and ensure illumination does not significantly exceed the minimum requirement of the Australian Standard.

Glare

This luminaire creates a significant glare zone nuisance for pedestrians. The unshielded glare zone of this luminaire creates nuisance for pedestrians along the length of the street and particularly so when pedestrians step into the primary beam and are forced to squint and avert their vision downwards. This discomfort is repeated as the pedestrian progresses from pole to pole along the street.

Installation



While one or two trial luminaires appear to be installed at close to horizontal alignment the others incorporate an up-tilt.

This luminaire does not appear to incorporate any capacity to adjust the up-tilt angle to horizontal.

Light Distribution

This luminaire has very poor control of rear light trespass. Like many of the older streets of Brisbane Drake Street has very short setbacks between property boundary and dwelling. This accentuates the rear light trespass and bathes many rearward homes in the primary illumination beam. Forward light trespass is mainly due to light from the glare zone falling on to homes across the street.



Significant rear light trespass problem with this luminaire.



Significant rear light trespass into homes.

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

The high colour temperature, inability to adjust the tilt angle, unshielded LED array, glare and excessive rear light trespass make this luminaire unsuitable for this category of residential street and Brisbane-wide roll-out.