



Transport  
for NSW

Intelligent Transport Systems

# Type Approval

Certificate No:	ITS-TAN000109
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Issued to:

**BRAUMS Pty Ltd**

For:

HPSM LED Traffic Signal Lantern			
RMS Specification:	TSI-SP-045	Version:	2.0

Summary Scope:

Size: **200mm**

Model: **Two Aspect Split Display Pedestrian/ Bicycle**

Model Number: **BTLAPC22N**

Note: Conditions of approval are on the reverse side of this certificate.

Evaluation Reference:	ITS-EV0236	Approver:	Manager TSI
Approver Signature:	<i>Raj J Roychoudhry</i>	Date:	8 Dec 2020

**A) Description and itemisation of the equipment covered by the type approval:**

LED lantern 200mm Two-aspect Pedestrian (complete lantern models: BTLAP22N), comprising:

- Two section aluminium alloy housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex and diffused lens – UV stabilised;
- Red Standing Person/ Bicycle aspect; 6.96 Watts; 2 LEDs; HPSM LEDs: Osram Oslon LEDs – LJ CKBP
- Green Walking Person/ Bicycle aspect; 5.83 Watts; 2 LEDs; HPSM LEDs: Osram Oslon LEDs – LV CQBP
- LED family – Futurled 6
- Aspect optical chamber ingress protection rating – IP65.

**B) Summary of deviations from specified requirements:**

Approved concessions include:

- i. Stepped dimming;
- ii. High power LED's applied in the signal aspects;
- iii. LED drive current is greater than 20mA.

**C) Relevant Specifications, Drawings and Standards:**

RMS Specification TSI-SP-045 specifies that the traffic signal lanterns shall comply with all the requirements of AS 2144, except as varied in TSI-SP-045.

**D) Conditions of use:**

Certificate users shall verify with RMS whether this certificate is current, valid, and applies to the latest RMS specification version, when using in situations where current validity is required.

**E) Related Certification History:**

Certificate Number	Issued	EV Number	Description or change details