

Intelligent Transport Systems

Type Approval

Certificate No: ITS-TAN000105

Issued to:

BRAUMS Pty Ltd

For:

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

Summary Scope:

Sizes: 200mm

Model: Three Aspect Roundel

Model Number: BTLAV23N

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

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

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

LED lantern 200mm Three-aspect Roundel (complete lantern models: BTLAV23N), comprising:

- Three section aluminium alloy housing, matt black powder coat finish;
- Black polycarbonate doors and tinted polycarbonate convex and diffused lens UV stabilised;
- Red Roundel aspect RV0200; 6.47 Watts; 2 LEDs; HPSM LEDs: Osram Oslon Signal LEDs LJ CKBP
- Yellow Roundel aspect YV0200; 9.3 Watts; 3 LEDs; HPSM LEDs: Osram Oslon Signal LEDs LCY CLBP
- Green Roundel aspect GV0200; 7.74 Watts; 2 LEDs; HPSM LEDs: Osram Oslon Signal 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.

Individual aspects may be swapped into within the lantern housing, so long as each aspect is approved, to support configurations listed in Traffic Signal Design – Appendix B (RMS/Pub. 08.092).

E) Related Certification History:

Certificate Number	Issued	EV Number	Description or change details
1505-R3452-01	22/05/2015		1505-R3452-01 has been renewed and superseded by this certificate.
ITS-TAN000021			ITS-TAN000021 has been renewed and
			Superseded by this certificate. LEDs were Osram Platinium Dragon, Futurled3R family.