

**Compliance Testing Report for
Australian/New Zealand Standards
AS/NZS 60598.1:2003 and
AS/NZS 60598.2.2:2001
Luminaires
Part 2.2: Particular Requirements — Recessed Luminaires
(Limited Testing Only)**

Client: Efficiency Matrix

Address: 14 Ondine Drive, Wheelers Hill, Victoria 3150

Report Number: 1104EFFLED_59822
(Replacement for report no. 1030EFFLED_59822)

Date of Testing: 29 – 30 October 2009

File Number: EFF091022

Equipment Name: LED Mitt

Equipment Model Number: Ledmitm2

Equipment Description: LED Mitt

Result: **COMPLIES**

Tested by: Hai Ying Qiu
Electrical Safety Test Engineer

Approved by: Kenneth Fu
Electrical Safety Manager

Date of issue: 04 November 2009



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**SUMMARY OF COMPLIANCE WITH AUSTRALIAN AND NEW ZEALAND
STANDARDS AS/NZS 60598.1: 2003 AND AS/NZS60598.2.2: 2001**

The EUT (Equipment Under Test) known as LED Mitt, model number Ledmitm2 and was supplied for AS/NZS 60598.1: 2003 and AS/NZS60598.2.2: 2001 testing by Efficiency Matrix of 14 Ondine Drive, Wheelers Hill, Victoria 3150.

This report is the replacement report for the test report no. 1030EFFLED_59822 to include the Brand name and thickness of R5 thermal insulation.

The EUT was tested to clause 12.4 of AS/NZS 60598.1: 2003 and clause 2.12 of AS/NZS 60598.2.2: 2001 for surrounding parts only (timber and fibre glass batt R5)

When the EUT was tested in conjunction with timber and fibre glass batt R5 as the surrounding parts, the EUT COMPLIES with the tested clause 12.4 of AS/NZS 60598.1:2003 and clause 2.12 of AS/NZS60598.2.2:2001.

There is no restriction for installation of the LED Mitt around timber and fibre glass batt R5 as per the Australian Wiring Rules, AS/NZS 3000:2007 clause 4.5.2.3.

Method

Testing was performed in accordance with the standard:
60598.1man

Possible Test Case Verdicts:

- test case does not apply to the test objectN(.A)
- test object does meet the requirementsP(ass)
- test object does not meet the requirementsF(ail)
- test was not performedNT(not tested)
- notedND

Doc Id: AS/NZS 60598.2.2

Page 3 of 8

Report No.: 1104EFFLED_59822

AS/NZS60598.2.2: 2001			
Clause	Requirement - Test	Result - Remark	Verdict

2.12 (12)	ENDURANCE TEST AND THERMAL TEST		
2.12 (12.4)	Thermal test (normal operation)	Refer to appended tables	P

12.4	TABLE: temperature rise measurements for normal operation		P
	test voltage (V)	254.4	—
Temperature (°C) of part		T (°C)	Max. T (°C)
Surrounding parts of heat shield construct of timber ^{A)}			
Timber		27	90
Inside the Mitt		36.8	Reference
Ambient		22	Reference
Surrounding parts of heat shield construct of fibre glass batt R5 ^{B)}			
Fibre glass batt R5		39.8	90
Inside the Mitt		43.8	Reference
Ambient		22	Reference
<p>^{A)} 100mmX100mm timber side pieces were fitted as close as possible against four sides of the insulation Mitt. The thermocouples were placed on the timbers near the insulation Mitt where temperature expected to be highest.</p> <p>^{B)} The 100mmX100mm timber side pieces were removed and replaced with thermal insulation in direct contact with the full circumference of the insulation Mitt. The thermocouple was placed on the thermal insulation near the insulation Mitt where temperature was expected to be highest.</p>			

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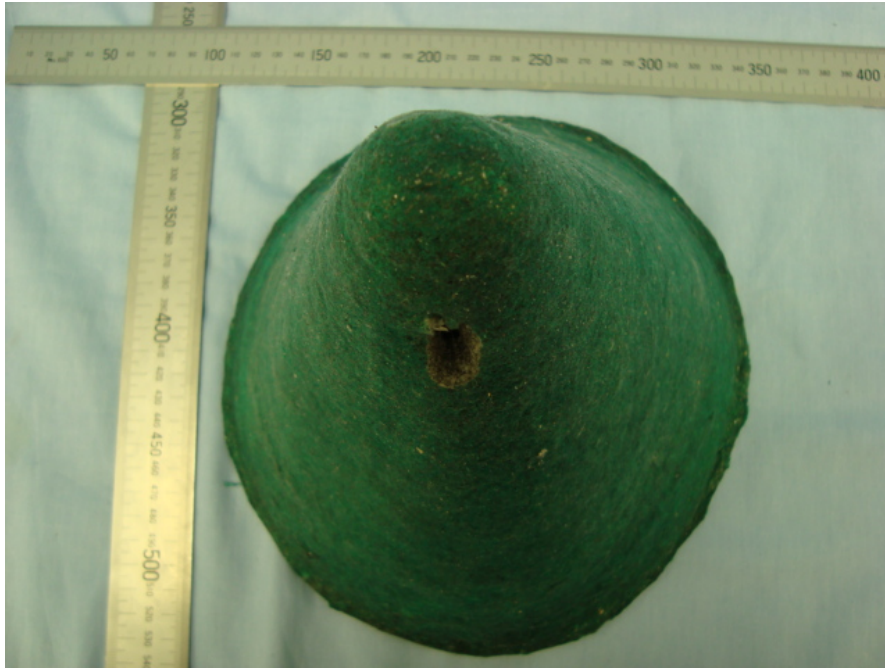
Appendix 1 – Critical Component List

Appendix 2 – Photographic Record of Sample

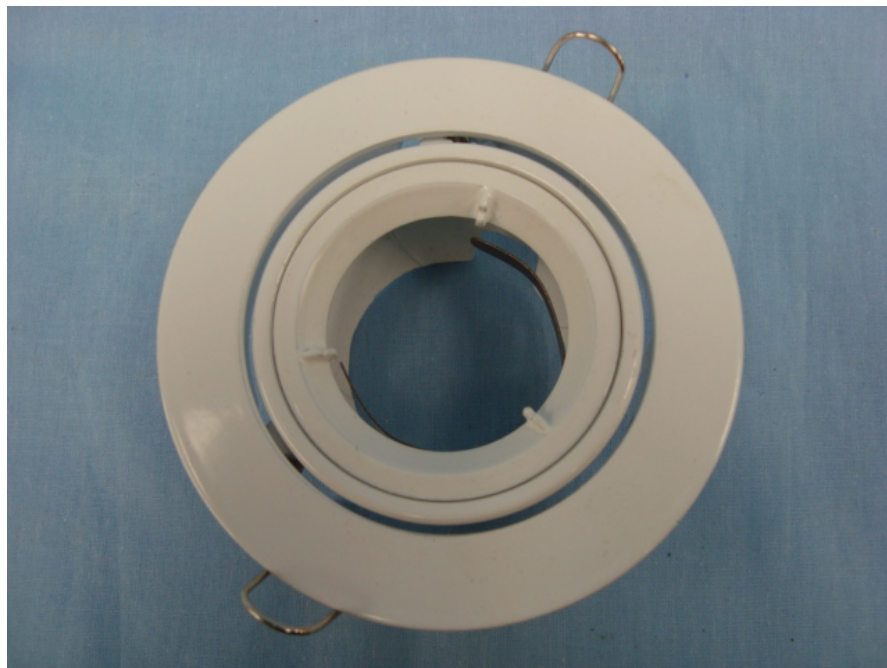
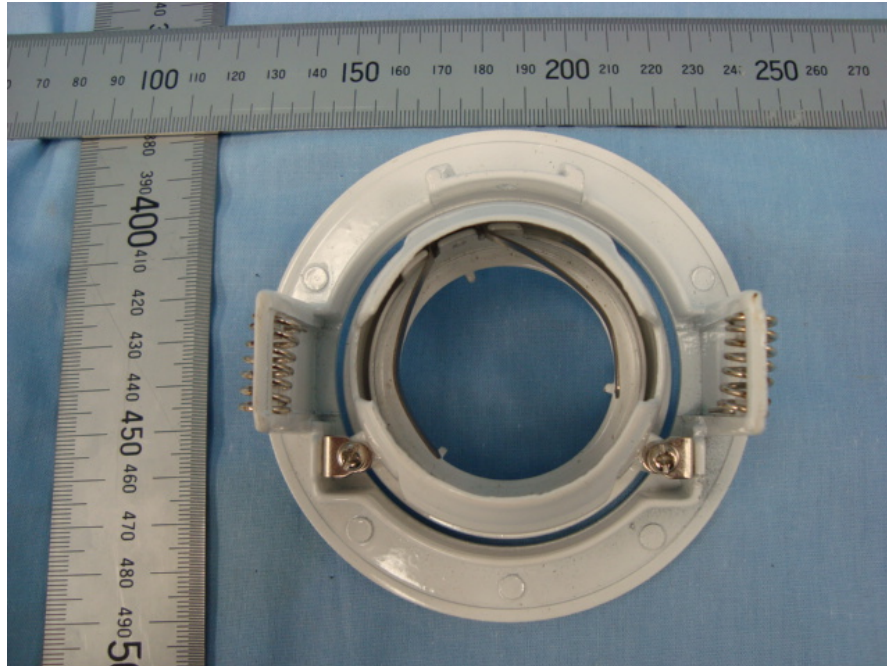
Appendix 1 – Critical Component List

Appendix 1	TABLE: Components					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity	
Transformer	TRIDONIC.ATCO	VIPER	Pri: 230-240V~ 50/60Hz Sec: 11.6V	-	V99	
LED Lamp	Green light	MR-16	12V, 5W	-	-	
Ceiling Batt R5.0	Insulco	201504	Thickness 215mm	-	-	
1) An asterisk indicates a mark which assures the agreed level of surveillance						

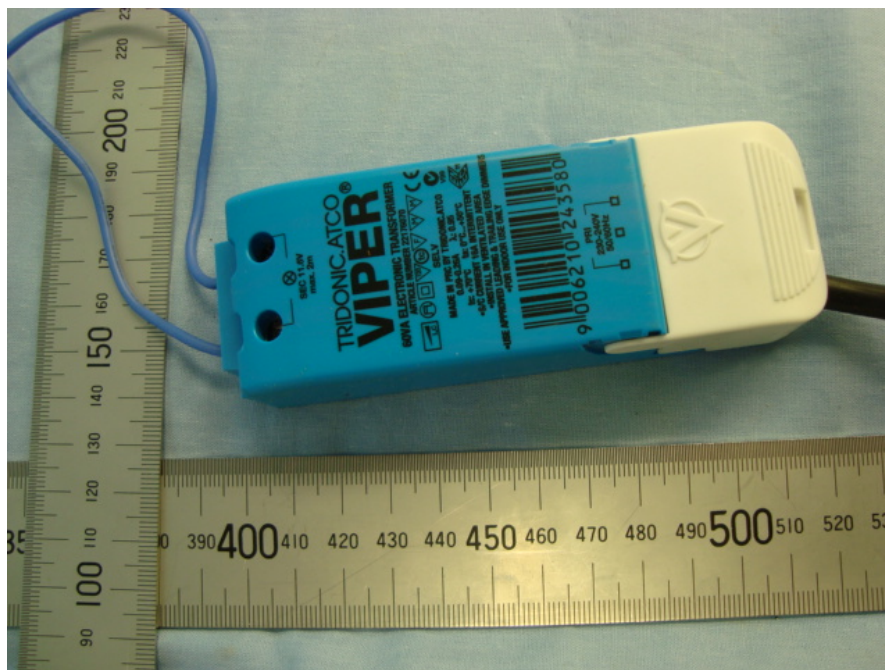
Appendix 2 – Photographic Record of Sample



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