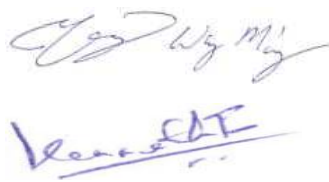


**Compliance Testing Report for  
 Australian/New Zealand Standards  
 AS/NZS 60598.1:2003 and  
 AS/NZS 60598.2.2:2001  
 Luminaires  
 Part 2.2: Particular Requirements — Recessed Luminaires  
 (Limited Testing Only)**

Client:	Efficiency Matrix
Address:	14 Ondine Drive, Wheelers Hill, Victoria 3150.
Report Number:	1209EFFDOWMIT01_59822
Date of Testing:	7 – 8 December 2009
File Number:	EFF091113
Equipment Name:	Loft Mitt
Equipment Model Number:	dowmit01
Equipment Description:	Fire rated downlight cover for use with 50W lamps.
Result:	<b>COMPLIES</b>
Tested by:	Wing Ming Yeung Electrical Safety Test Engineer
Approved by:	Kenneth Fu Electrical Safety Manager
Date of issue	9 December 2009



Results appearing herein relate only to the sample(s) tested.  
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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 Loft Mitt, model number dowmit01, 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.

The manufacturer's description was as follows "The loft mitt is a fire rated downlight cover, designed to retrofit directly on top of a 50W lamp, and is primarily designed to be installed from in the roof area. The material has an R-value, and it is not required to be ventilated for a 50W halogen Lamps".

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). A 12V 50W halogen lamp was used during testing.

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.

Based on the tests contained herein, there is no restriction for installation of the Loft 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 object .....N(.A)
- test object does meet the requirements .....P(ass)
- test object does not meet the requirements .....F(ail)
- test was not performed .....NT(not tested)
- noted .....ND

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 <b>normal operation</b>		P
	test voltage (V) .....	254.4	—
Temperature (°C) of part		T (°C)	Max. T (°C)
Surrounding parts of heat shield construct of timber <sup>A)</sup>			
Timber		35.2	90
Mitt surface on the inside		74.5	Reference
Lampholder		155.2	Reference
Internal wire near lampholder		106.5	Reference
Ambient		24.8	Reference
Surrounding parts of heat shield construct of fibre glass batt R5 <sup>B)</sup>			
Fibre glass batt R5		75.8	90
Mitt surface on the inside		97.1	Reference
Lampholder		183.9	Reference
Internal wire near lampholder		144.5	Reference
Ambient		25.3	Reference
<p><sup>A)</sup> 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><sup>B)</sup> The 100mmX100mm timber side pieces were removed and replaced with thermal insulation in direct contact with the outside surface of the insulation Mitt. The thermocouples were placed on the thermal insulation near the insulation Mitt where temperature expected to be highest.</p>			

Doc Id: AS/NZS 60598.2.2

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AS/NZS60598.2.2: 2001

Clause	Requirement - Test	Result - Remark	Verdict
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**\*\*\* END OF REPORT BODY \*\*\***

**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	
Electronic Transformer	TRIDONIC ATCO	VIPER	Pri: 240V~ 50Hz Sec: 12V	AS/NZS 61558	V99	
Halogen Lamp	OSRAM	DECOSTAR ALU 41871 WFL	12V 50W 36°	-	-	
Ceiling Batt R5.0	Insulco	201504	Thickness 215mm	-	-	
<sup>1)</sup> An asterisk indicates a mark which assures the agreed level of surveillance						

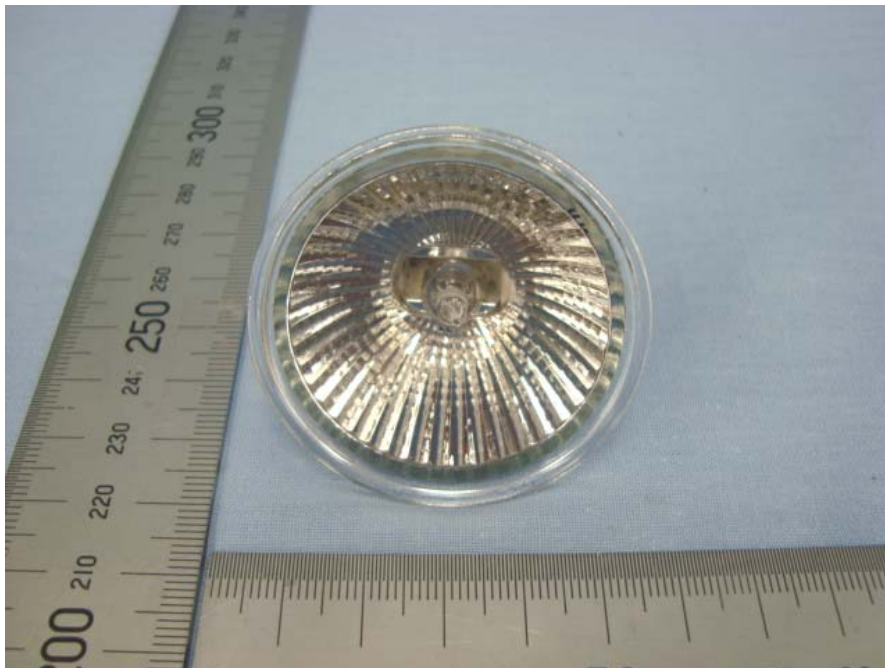
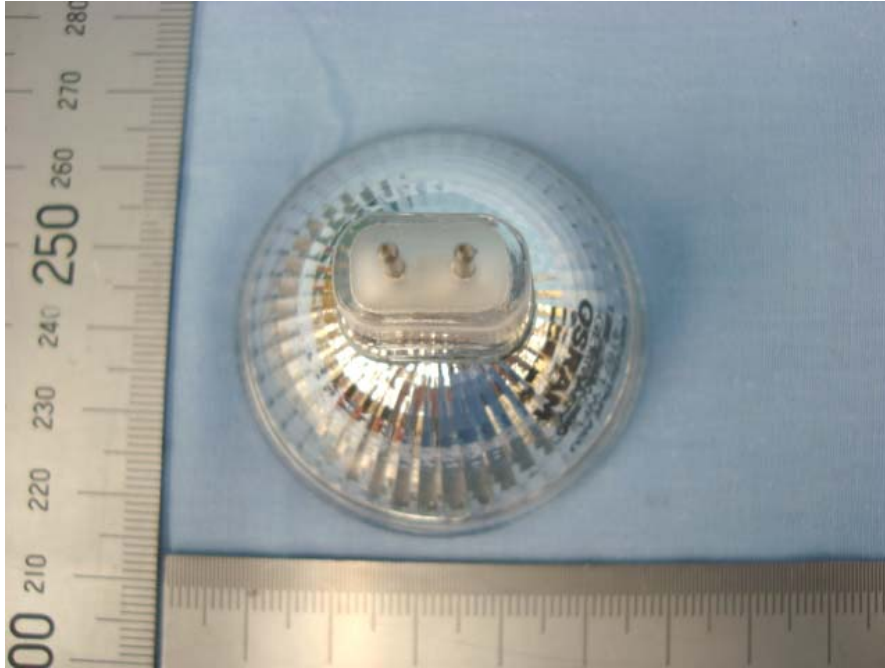
**Appendix 2 – Photographic Record of Sample**



**Appendix 2 – Photographic Record of Sample**



**Appendix 2 – Photographic Record of Sample**





**Appendix 2 – Photographic Record of Sample**

