

<b>TEST REPORT</b> <b>AS/NZS 60598.2.2:2001</b> <b>Luminaires</b> <b>Part 2: Particular requirements – Recessed luminaires</b>	
Report Reference No. ....	S08007
Approved by (+ signature).....	I Absolom 
Date of issue .....	Thursday, 31 January 2008
Contents.....	6 Pages
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<b>Applicant's name</b> .....	LTC products
Address .....	10 Mermaid Court Patterson Lakes 3197 Victoria Australia
<b>Test specification:</b>	
Standard .....	AS/NZS 60598.1:2003 General requirements AS/NZS 60598.2.2:2001 Recessed Luminaires
<b>Test Report Form No</b> .....	60598.2.2-TRF
TRF Originator.....	SGS-CTS
Master TRF .....	05/04/2006
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<b>Test item description</b> .....	80mm Fixed downlight heat shield
Trade Mark .....	None
Model/Type reference .....	DLCL
Rating .....	None



**Possible test case verdicts:**

- Test case does not apply to the test object.....: N/A
- Test object does meet the requirement.....: P (Pass)
- Test object does not meet the requirement.....: F (Fail)

**Testing:**

Date of receipt of test item ..... 17/01/08

**General remarks:**

"(see Enclosure #)" refers to additional information appended to the report.  
 "(see appended table)" refers to a table appended to the report.  
 items in parentheses “()” denote the clause number from AS/NZS 60598.1

Remarks:

Variations, exclusions or additions to standard as detailed herein.

The heat shield is made of steel mesh with 2mm diameter holes and 100mm high and 80mm in diameter , Access entry points for lamp wiring are provided.

Test installation as specified by the client:-

The test was conducted with the heat shield fitted to a downlight ( Luxalite Model LLW50/E 50 W lamp 12V 50W transformer) when installed within a recessed full enclosure of 450mm X 650mm by 200mm internal dimensions. The luminaire was placed centrally within the enclosure. The ceiling of the enclosure was placed 100mm from the top of the heat shield.

Tests:-

a) close fitting timber side pieces were fitted hard against opposite sides of the heat shield up to a height of 100mm as per the provided instructions

b) The timber side pieces were removed and replaced with thermal insulation in direct contact with the full circumference of the heat shield up to a height of 100mm

The test was conducted with Fibre Glass Batt R 5 rated

Summary of testing:

This Heat shield was evaluated and tested to comply with the requirements clause 12.4 for surround temperatures only at the clients request.

The temperature for the insulation Batts was assumed to be 90C for cellulose Fibre ( cellulose being a wooden material)

Nameplate:

None

2.12 (12)	ENDURANCE TEST AND THERMAL TEST		
2.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Pass

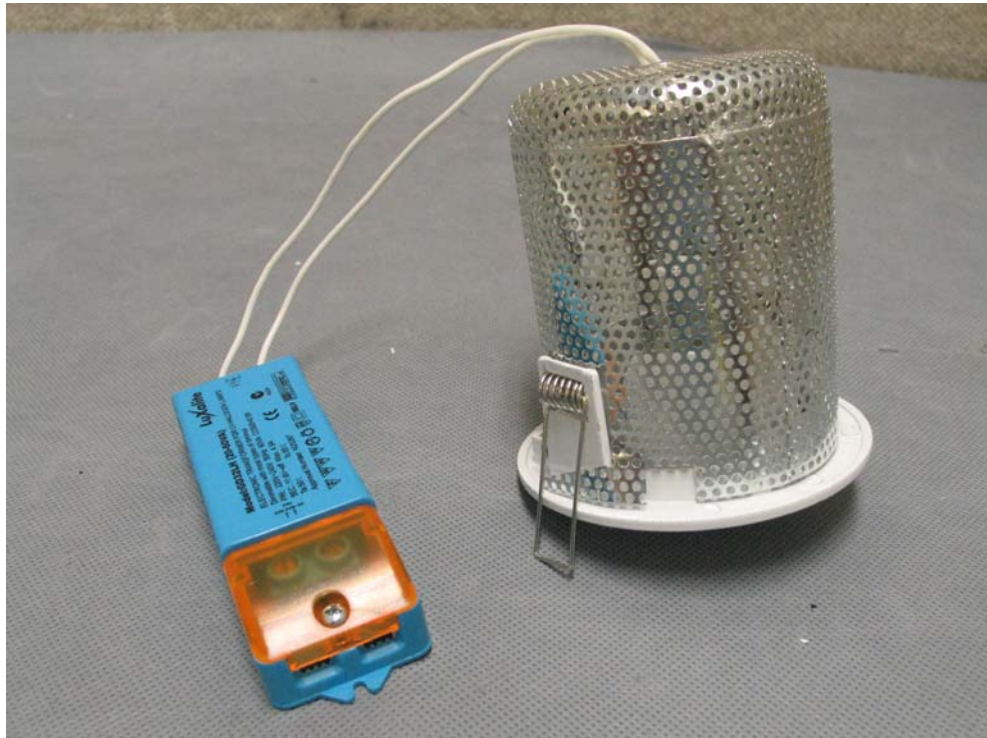
ANNEX 1: components								
object/part No.	Heat shield	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity		
Transformer	Test 2	Luxalite	GD32LH	PRI: 220V-240V 50Hz 60VA COS $\phi$ =0.99 SEC:11.6V~eff Max 4.9A Ta:50°C, Tc:85°C		N20287 CE		
Internal wire	Test 2	Jiang Yin Hao Cheng	40017754	H05S-K 1*0.75mm <sup>2</sup>		VDE		
Lamp	Test 2	Luxalite	MR16 FNV/C	12V 50W				
No.	mark of conformity		No.	mark of conformity		No.	mark of conformity	
1			2	VDE		3	SEV	
5	DEMKO		6	SEMKO		7	NEMKO	
9	BSI		10	UL		11	CSA	
13	IMQ		14	BNL		15	CEBEC	
						12	LCIE	
						16	KEMA	

The codes above have the following meaning:

- A – The component is replaceable with another one, also certified, with equivalent characteristics
- B – The component is replaceable if authorised by the test house
- C – Integrated component tested together with the appliance
- D – Alternative component

ANNEX 2: temperature measurements, thermal tests of Section 12						
Type reference.....:	80mm diameter heat shield				—	
Lamp used .....					—	
Lamp control gear used .....					—	
Mounting position of luminaire .....	Recessed				—	
Supply wattage (W) .....					—	
Supply current (A).....:					—	
Calculated power factor .....					—	
Table: measured temperatures corrected for ta = 25 °C:						
- .....					—	
Test voltage:	254.4V,55W, 0.24A					
- test a: .....	Installed with surround in direct contact with opposite side of the heat shield				—	
- test b: .....	Installed with thermal insulation in direct contact with all sides of the heat shield				—	
temperature (°C) of part	clause 12.4 – normal					
	-	test a	test b	limits	Result	
Mounting surface side pieces(timber)	-	49	-	90	P	-
Thermal Insulation	-	-	82	90	P	-
Ceiling of the recessed enclosure box	-	48	56	90	P	-

PHOTOGRAPHY:



80mm heat shield fitted to Luxalite Gimble luminaire

