

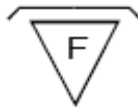
Date: 28/05/2010

Job reference 4804-2

Lighting Pacific EvoLED Downlight Thermal Test

Product description	Lighting Pacific EvoLED Recessed Downlight
Standard	AS/NZS 60598.1:2003 inc. AS/NZS 60598.2.2:2001 & AS/NZS 60598.2.6:1998
Test voltage	254.4 V (to obtain 1.06 times rated voltage) as per IEC / EN 60598-2-6
Transformer	HALERS Lighting EVOLED NW
Cut-out size	Ø60 mm
Thermal insulation	200 mm depth (approx R5)

Insulating ceiling mark



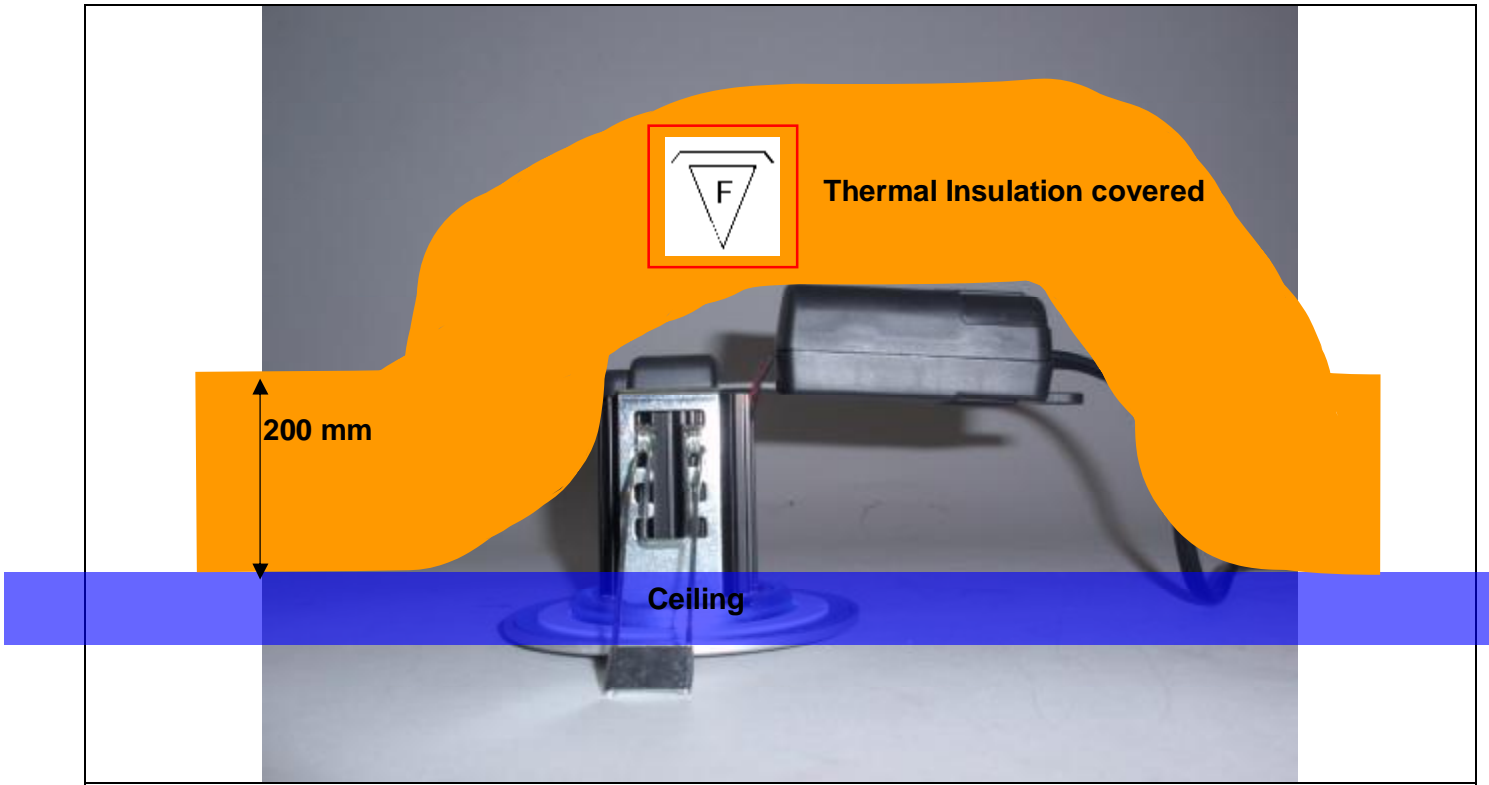
Suitable for mounting in normally flammable surfaces where thermal insulating material may cover the luminaire.

The luminaire was installed as described above and operated until the steady state conditions were established (approximately 4 hrs).

12.4	TABLE: Heating test, thermocouples		Complied
	Test voltage (V) :	254.4	—
	Initial ambient (°C) :	22.3	—
	Final ambient (°C) :	22.4	—
Thermocouple locations	T (°C)	Max. T (°C)	
Lower ceiling wood	59.4	90	
Inside the cut-out hole	58.9	90	
Upper ceiling wood near the luminaire	52.5	90	
Thermal insulation above	63.4	Reference	
Transformer tc	59.8	70	
Transformer ta	52.9	Reference	
Internal wiring may contact with heat sink	67.6	105	
Heat sink	69.2	Reference	
Transformer plastic support	66.2	100	
Transformer cover (inside)	64.3	100	
Components inside the transformer			
Supply cord	59.9	90	
Transformer T1 winding 1	73.7	100	
Transformer T1 winding 2	76.4	100	
Capacitor C1	61.9	105	
Capacitor C12	65.0	105	
Inductor L1	71.8	100	
Capacitor C2	65.7	105	
Capacitor C8	65.2	105	

Note 1: winding insulation class of transformer T1 and inductor L1 of the LED Driver was not specified. Their limits were considered as class A (100 °C) as the worst case scenario.

Note 2: t_a of the transformer exceeded its rating (40 °C), which means life expectancy of the transformer may be reduced.



Ceiling Cavity



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