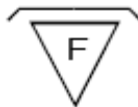


Date: 27/05/2010

Job Reference No. 4804-1

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
 Classification: CA (closed abutted)



Insulating ceiling mark

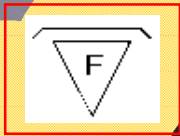
Suitable for mounting in normally flammable surfaces where thermal insulating material may cover the luminaire.

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) :	22.0	—
	Final ambient (°C) :	22.4	—
Thermocouple locations		T (°C)	Max. T (°C)
Lower ceiling wood		64.7	90
Inside the cut-out hole		62.4	90
Upper ceiling wood near the luminaire		57.0	90
Thermal insulation above		69.7	90
Side thermal insulation abutted		74.1	90
Transformer tc		66.9	70
Transformer ta		61.2	Reference
Internal wiring may contact with heat sink		76.0	105
Heat sink		77.1	Reference
Transformer plastic support		74.2	100
Transformer cover (inside)		70.2	100
Components inside the transformer			
Supply cord		68.1	90
Transformer T1 winding 1		83.0	100
Transformer T1 winding 2		86.0	100
Capacitor C1		71.7	105
Capacitor C12		73.5	105
Inductor L1		81.2	100
Capacitor C2		74.7	105
Capacitor C8		73.0	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.



Thermal Insulation covered

CA

Thermal Insulation Abutted

Ceiling

Ceiling Cavity



Lighting Pacific EvoLED Downlight