

Compliance Testing Report for Australian/New Zealand Standard AS/NZS60598.1:2017+A1+A2

Luminaires – Part 1: General requirements and tests (Partial Testing - Flammability Testing)

Client:	Bounce LED
Address:	Unit 8, 17-21 Cadogan Street, Marrickville, NSW 2004, Australia
Report Number:	0210BOUBladeplus_5981P
Date of Testing:	4 th - 10 th February 2021
File Number:	BOU201209
Equipment Name:	LED module
Equipment Model Number:	Blade Plus
Equipment tradename / brandname	Bounce LED
Equipment Description:	LED module
Result:	COMPLIES
Tested by:	Darren Li
Approved by:	Wing Ming Yeung
Date of issue	10 th February 2021

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*** refer to summary page for clarification**

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SUMMARY OF COMPLIANCE WITH AUSTRALIAN AND NEW ZEALAND STANDARD AS/NZS60598.1:2017+A1+A2

The EUT (Equipment Under Test), known as LED module, model number: Blade Plus, was supplied for AS/NZS60598.1:2017+A1+A2 testing by Bounce LED of Unit 8, 17-21 Cadogan Street, Marrickville, NSW 2004, Australia.

The model Blade Plus was considered as Class III equipment, designed to be powered through a supply voltage of 12VDC, each of the LED module rated power of 6W.

The LED module, model number: Blade Plus **COMPLIES** with the tested clause of AS/NZS60598.1:2017+A1+A2.

Method

Testing was performed in accordance with the standard and test procedures:

60598.2.1man

Issue 1

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

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AS/NZS 605981: 2017 + A1 +A2			
Clause	Requirement + Test	Result - Remark	Verdict
16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
16 (13.3)	Resistance to flame and ignition (AS/NZS 60598.1/APPENDIX ZZ)		P
16 (13.3.1)	Glow-wire test (750°C):		P
	- part tested	Refer to appended table	P
16 (13.3.2)	Glow-wire test (650°C) :		P
	- part tested	Refer to appended table	P
16 (13.3.3)	Needle flame test: (AS/NZS 60598.1+A2/APPENDIX ZZ)		P
	- part tested	Refer to appended table	P

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AS/NZS60598.1:2017+A1+A2
FLAMMABILITY TEST RESULT

The following parts were subjected to the appropriate glow-wire/needle flame tests specified in AS/NZS60598.1:2017+A1+A2

SPECIMEN NO.	PART	MATERIAL	COLOUR
1	Enclosure	Thermoplastic	White
2	Diffuser	Thermoplastic	Translucent

For results see the following tables

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FLAMMABILITY TEST RESULT

Glow-wire tests

The specimens were tested with the test surfaces arranged vertically and the glow-wire tip applied at right-angles for 30s at the temperature stated:

AS/NZS 60695.2.11 CLAUSE	SPECIMEN NUMBER ⇒	1	2
3	How tested	C	C
5	Glow-wire tip temp (°C)	750	650
10(a)	Time till ignition of specimen (s)	1	NI
	Time till ignition of the underlying layer (tissue paper, pinewood board etc.) (s)	NI	NI
10(b)	Time from tip application till flaming or glowing ceased (s)	6	NA
10(c)	Maximum flame height (mm)	38	NA
10(d)	Specimen distortion	Yes	Yes
	Depth of penetration (mm)	NM	NM
10(e)	Pinewood board scorching	No	No
11(a)	Flame or glowing	Flame	No
11(b)	Time of flames or glowing of specimen, surroundings or layer below after removal of tip (maximum allowable: 30 s) (s)	NA	NA
	Ignition of surrounding parts or layer below (not permitted)	NI	NI
11	Ignition of wrapping tissue (not allowed)	NI	NI
11	RESULT	NF	P

Legend: CE-Complete Equipment; SA-Sub-Assembly; C-Component; ME-manually Extinguished; NI-No Ignition; NA-Not Applicable; P-Pass; F-Fail; Sat-Satisfactory; Uns-Unsatisfactory; ø-Ignited Specimen Number; NF-Needle Flame Test Required, NM- Not Measured

* Either 11(a) or 11(b) has to comply. "Yes" does not constitute a point of non-compliance with 11(a) if the requirements of 11(b) are met.

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AS/NZS60598.1:2017+A1+A2
FLAMMABILITY TEST RESULT

Needle-flame test on surrounding parts

As a consequence of the glow-wire test, the following specimens were subjected to the needle-flame test of IEC 60695.11.5 for 30 s. Also, at the Client's request, parts indicated with an asterisk (*) were subjected to a 30 s needle-flame test:

IEC 60695-11-5 Clause	SPECIMEN NUMBER $\Rightarrow$	2
	Flame impinged from specimen no.	1
6	How tested	SA
7	Duration of flame application (t_a) (s)	30
5.4	Specified layer used	WT
11a)	Flame or glowing of test specimen or ignition of specified layer or wrapping tissue	NI
11b)	Flame or glowing of test specimen and surrounding parts extinguish within 30 s after the removal of the needle-flame ($t_b < 30$ s) (s)	NA
11*	RESULT	P

Legend:

P-Pass;

F-Fail;

NA-Not Applicable;

For clause 6:

CE-Complete Equipment;

SA-Sub-Assembly;

C-Component;

For clause 5.4:

WT-Wooden board covered with wrapping tissue;

SP-Surrounding part/material situated underneath the test specimen in normal use

For Clause 11:

ME-Manually Extinguished;

NI-No Ignition;

*Specimen satisfies requirements if either 11a) or 11b) complies. "Yes" does not constitute a point of non-compliance with 11a) if the requirements of 11b) are met.

END OF REPORT BODY

APPENDIX 1 – PHOTOGRAPHIC RECORD OF SAMPLE

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Appendix 1 – Photographic Record of Sample



Overview

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