

**Compliance Testing Report For
Australian Standard AS/NZS 60598.1:2013
Luminaires – Part 1: General requirements and tests
(Partial Testing to Clause 9.2 - Resistance to Dust, Solid
Objects and Moisture)**

Client: DARKON
Address: 110 Cromwell Street, Collingwood, VIC, 3066, Australia
Report Number: 0606DARSlim-C_5981P
Date of Testing: 30th May 2016 and 31st May 2016
File Number: DAR160422-A

Equipment Name: SLIM-C IP
Equipment Model Number: Slim-C IP / SM / BLK / OPAL V / HE / 250 / Non Dim
Equipment tradename/brand name: SLIM-C IP
Equipment Description: Slim-C IP / SM / BLK / OPAL V / HE / 250 / Non Dim

Result: **COMPLIES***

Complied By: Zhimou Qin



Approved By: Ashley Mansell



Date of Issue: 6th June 2016

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*** Refer to Summary Page for Clarification**

SUMMARY OF COMPLIANCE WITH AUSTRALIAN STANDARD AS/NZS 60598.1:2013 - CLAUSE 9.2 - RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE

The EUT (Equipment Under Test) known as a SLIM-C IP luminaire, model number Slim-C IP / SM / BLK / OPAL V / HE / 250 / Non Dim was supplied for AS/NZS 60598.1 IP55 testing by DARKON of 110 Cromwell Street, Collingwood, VIC, 3066, Australia.

The EUT was tested according to the requirements of IP55 of AS/NZS 60598.1:2013 clause 9.2 with reference to AS 60529:2004.

The SLIM-C IP luminaire, model number Slim-C IP / SM / BLK / OPAL V / HE / 250 / Non Dim **COMPLIES** with the tested clauses for IP55 of AS/NZS 60598.1.

Condition for compliance to IP55 rating:

The EUT is required to be indelibly marked with the IP55 number.

Method

Testing was performed in accordance with the standard.

Possible Test Case Verdicts:

- Test case does not apply to the test objectN (N.A)
- Test object does meet the requirementsP (Pass)
- Test object does not meet the requirementsF (Fail)
- Testing was not performed.....NT
- NotedND

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AS/NZS 60598.1:2013			
Clause	Requirement – Test	Result - Remark	Verdict
9	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		—
9.1	General		—
9.2	Tests for ingress of dust, solid objects and moisture		P
	- classification according to IP : IP55		P
	- mounting position during test..... : Positioned as in normal use.		P
	- fixing screws tightened; torque (Nm) : Sample came as an assembly		N
	- tests according to clauses :		P
	- electric strength test afterwards	See Table 10.2.2	P
	a) no deposit in dust-proof luminaire	Result: No deposit of talcum powder observed	P
	b) no talcum in dust-tight luminaire		N
	c) no trace of water on current-carrying parts or where it could become a hazard	Result: No water entry observed	P
	d) i) For luminaires without drain holes – no water entry		P
	d) ii) For luminaires with drain holes – no hazardous water entry		N
	e) no water in watertight luminaire		P
	f) no contact with live parts (IP2X)		N
	f) no entry into enclosure (IP3X and IP4X)		N
	f) no contact with live parts (IP3X and IP4X)		N
	g) no trace of water on any part of a lamp requiring protection from splashing water		N
	h) no damage, cracking or breakage		N
9.2.0	Tests	IP55	P
9.2.1	Dust-proof luminaires		N
9.2.2	Dust –tight luminaires		P
9.2.3	Drip-proof luminaires		N
9.2.4	Rain-proof luminaires		N
9.2.5	Splash-proof luminaires		N
9.2.6	Jet-proof luminaires		P
9.2.7	Powerful water jet-proof luminaires		N
9.2.8	Watertight luminaires		N
9.2.9	Pressure watertight luminaires		N

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AS/NZS 60598.1:2013						
Clause	Requirement – Test		Result - Remark			Verdict
10.2.2	Electric strength					P
Insulation of parts	Test voltage V					
	Class I luminaires		Class II luminaires		Class III luminaires	
SELV:						
Between current-carrying parts of different polarity						
Between current-carrying parts and the mounting surface *						
Between current-carrying parts and metal parts of the luminaire						
Between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal						
Insulating bushings as described in Section 5						
Other than SELV:						
Between live parts of different polarity	-	-				
Between live parts and the mounting surface *	b	1480 V				
Between live parts and metal parts of the luminaire	b	1480 V				
Between live parts which can become of different polarity through action of a switch	-	-				
Between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal	b	1480 V				
Insulating bushings as described in Section 5	-	-				
Between Live parts to foil around external unearthed glass enclosure	d	2960 V				
Basic insulation for voltages of SELV (a)	500					
Basic insulation for voltages other than SELV (b)	2U + 1000					
Supplementary insulation (c)	2U+1000					
Double or reinforced insulation (d)	4U + 2000					
* The mounting surface is covered with metal foil for the purpose of this test.						
U = working voltage						

*** END OF REPORT BODY ***

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Appendix 1 Photographic records



Sample



Sample



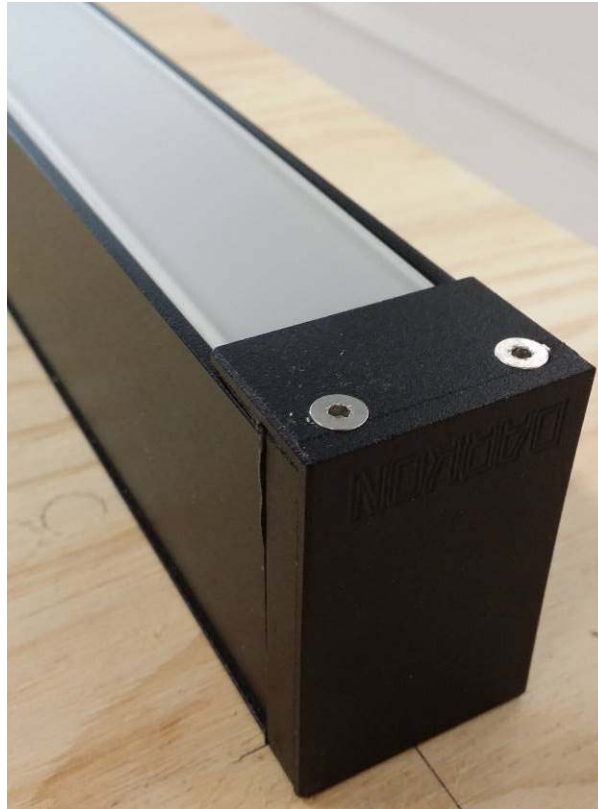
Sample

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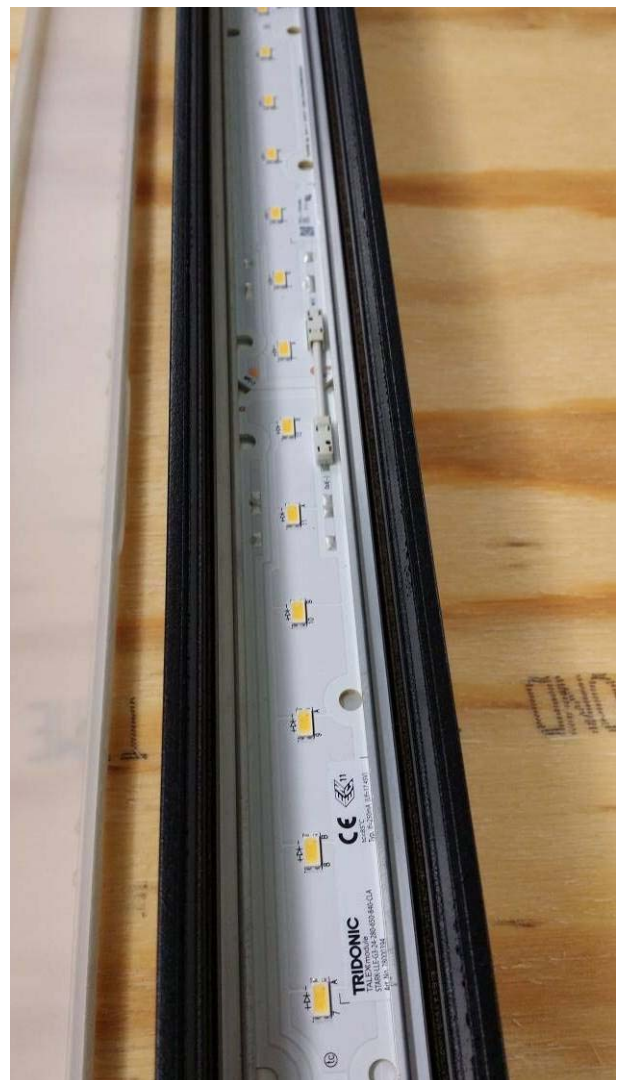
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Appendix 1 Photographic records



After IPX5 water test



After IPX5 water test

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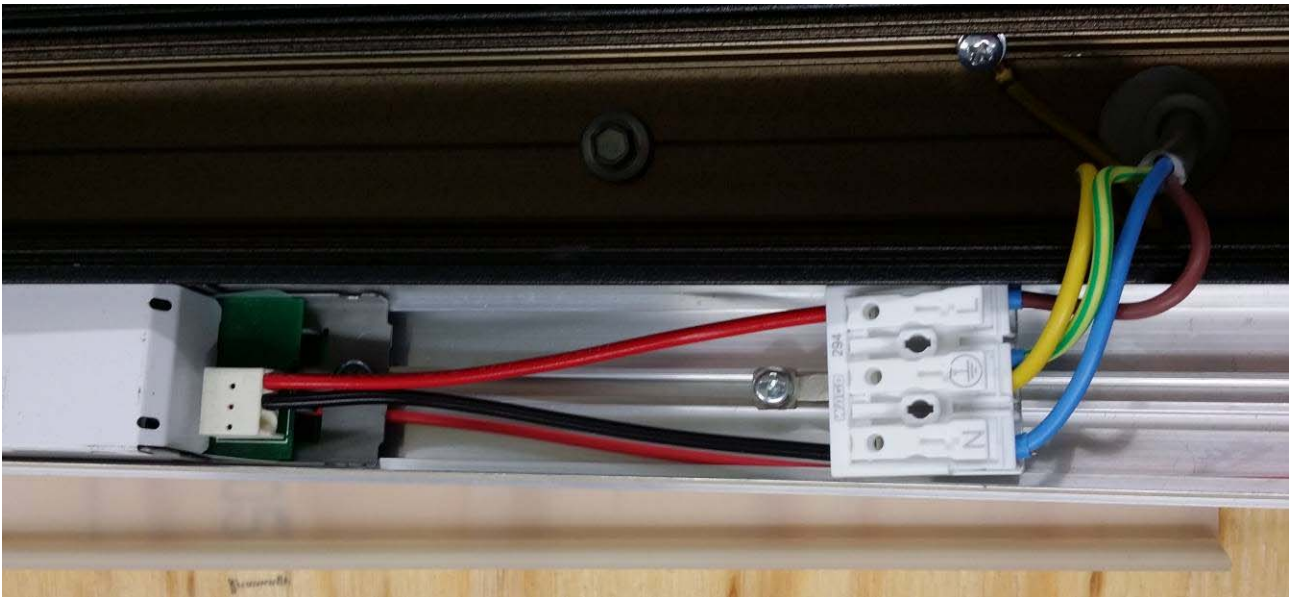
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Appendix 1 Photographic records



LED control gear



After IP5X dust test

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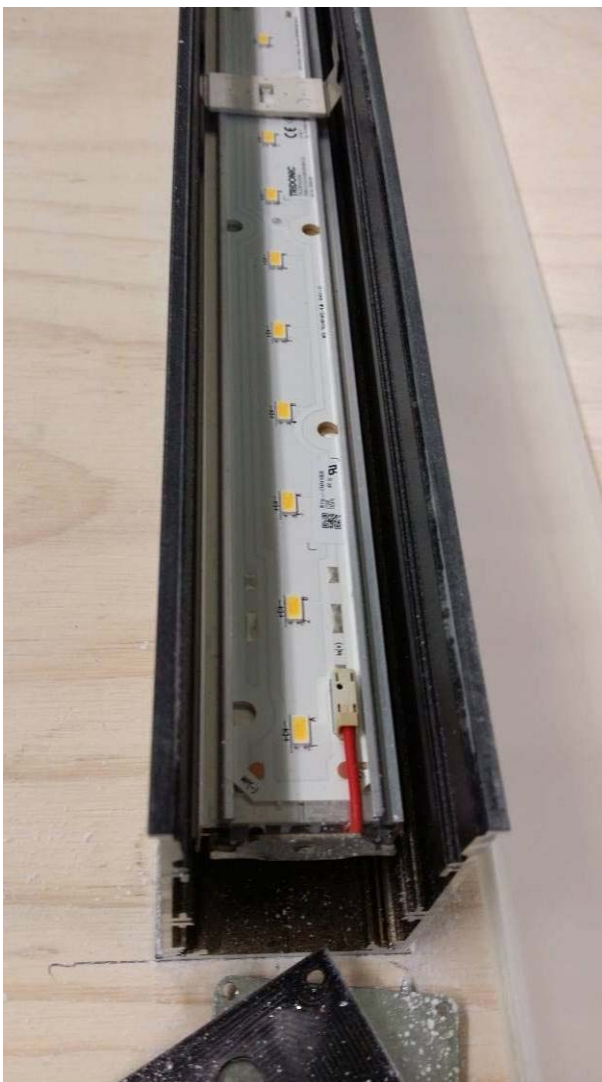
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After IP5X dust test



After IP5X dust test

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After IP5X dust test



After IP5X dust test



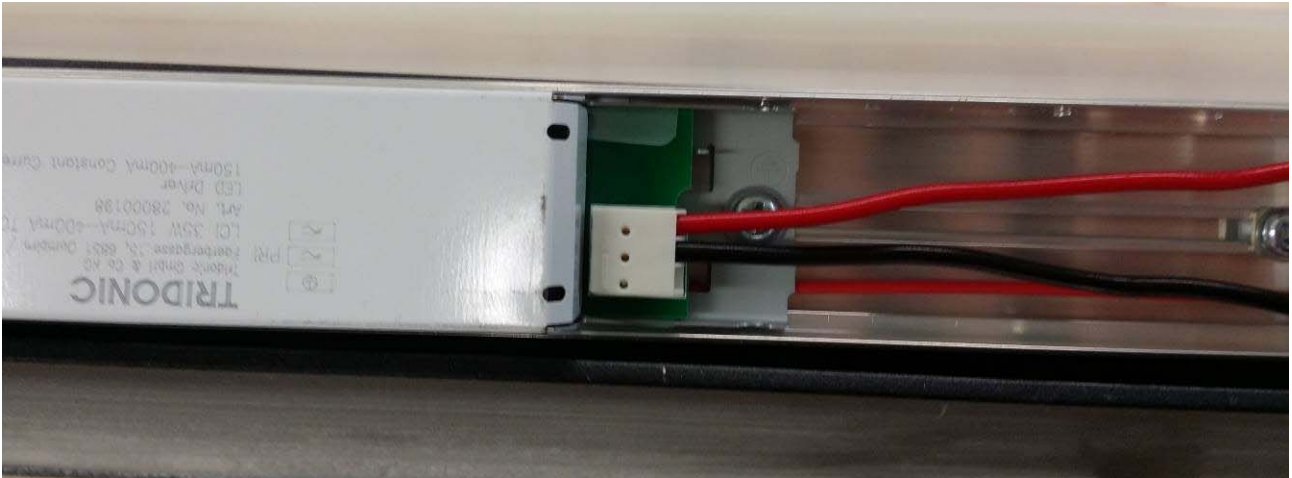
After IP5X dust test

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