Test Report Number:	**LCZS22050049**	***Total Page(s):9***
Applicant Name:	Imminent Teknologies Limited	
Applicant Address:	Suite 5, Valley Towers, Valley Road, Birkirkara BKR9022, Malta	
Test item:	LED Downlight	
Model / Type Reference:	BLU-ACQUILLA-8SF-W-IP65, BLU-ACQUILLA-8SA-W-IP65, BLU-ASTRO-8SF-W-IP65, BLU-ASTRO-8SA-W-IP65(with BLU-IS-2M-13W LED module as light source for testing)	
Date of Issue:	2022-05-26	
Testing Laboratory:	LCTECH Guangdong Testing Services Co., Ltd. 2/F.,Technology and Enterprise Development Center, Guangyuan Road, Xiaolan, Zhongshan, Guangdong, China	
Test Specification:	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE (According to EN IEC 60598-1:2021 Clause 9.2.2 and Clause 9.2.6)	
Test Result:	Passed	

Compiled by:			**Reviewed by:**		
2022-05-26	*Haskins Chung*	Haskins Chung	*2022-05-26*	*Shona chen*	Shona chen
Date	*Name*	*Signature*	*Date*	*Name*	*Signature*

Remark:
N/A

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Test item description .....:	**LED Downlight**
Trade Mark .....:	BLUi Lighting
Manufacturer .....:	Imminent Teknologies Limited Suite 5, Valley Towers, Valley Road, Birkirkara BKR9022, Malta
Model/Type reference .....:	BLU-ACQUILLA-8SF-W-IP65, BLU-ACQUILLA-8SA-W-IP65, BLU-ASTRO-8SF-W-IP65, BLU-ASTRO-8SA-W-IP65(with BLU-IS-2M-13W LED module as light source for testing)
Ratings .....:	220-240V, Class II, IP65.for the lens, IP20 for other parts
Test item particulars .....:	
Classification of installation and use ..... :	LED Downlight for outdoor use
Supply Connection ..... :	Supply wire
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 ..... :	2022-05-20
Date (s) of performance of tests..... :	2022-05-25

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Note: EN Group Differences together with National Differences and Special National Conditions, if any, are in the Appendix to the main body of this TRF.
Throughout this report a comma (point) is used as the decimal separator.

Clause numbers between brackets refer to clauses in EN60598-1

When determining of test conclusion, measurement uncertainty of test has been considered.

The report is quoted the standard EN IEC 60598-1:2021 have been accredited by CNAS (L3337), and the following clauses in the standard EN IEC 60598-1:2021 are restricted by CNAS (L3337).

Cl. 9.2 IP6X

General product information:

The product is LED Downlight for outdoor use. IP classification is IP65.for the lens, IP20 for other parts.

All models are same structure except the part of the luminous surface

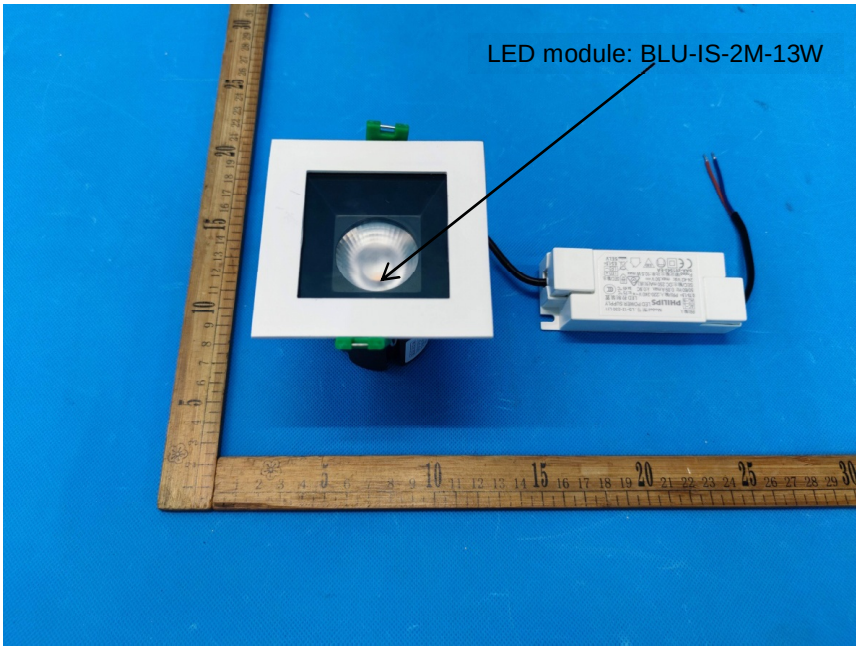
Summary of testing:

Model BLU-ASTRO-8SF-W-IP65 was selected as representative models for the full test. The samples are found to comply with the standard: Resistance to Dust, Solid, Objects and Moisture EN IEC 60598-1:2021(Clause 9.2.2 and Clause 9.2.6)

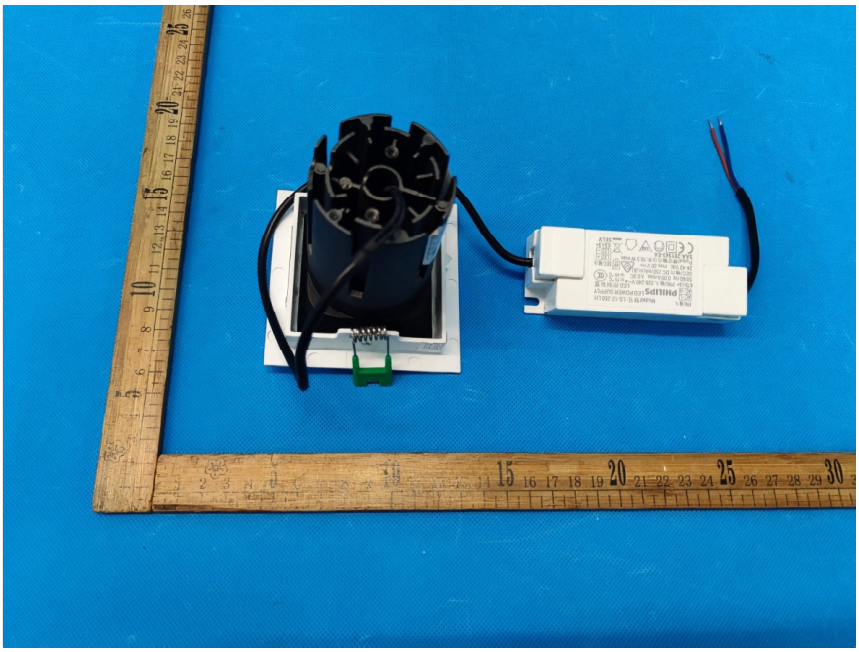
EN 60598-1			
Cl.	Requirement – Test	Result	Verdict
9	**RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE**		—
9.2	Tests for ingress of dust, solid objects and moisture:		—
	- classification according to IP .....:	IP65	—
	- mounting position during test .....:	As normal use	—
	- electric strength test afterwards	Between live parts of different polarity: 1480V; Between live parts and mounting surface : 2960V	—
9.2.2	IP6X test: Dust-proof luminaires (first characteristic Ipnumeral 6) shall be tested in a dust chamber similar to that shown in Figure 6, in which talcum powder is maintained in sus-Pension by an air current. The chamber shall contain 2 kg ofpowder for every cubic metre of its volume. The talcum powder used shall be able to pass through a square-meshed sieve whose nominal wire diameter is 50 µm and whose nominal freedistance between wires is 75 µm. It shall not have been used for more than 20 tests. The test shall proceed as follows: a) The luminaire is suspended outside the dust chamber and operated at rated supply voltage until operating temperature is achieved. b) The luminaire, whilst still operating, is placed with the minimum disturbance in the dust chamber. c) The door of the dust chamber is closed. d) The fan/blower causing the talcum powder to be in suspension is switched on. e) After 1 min, the luminaire is switched off and allowed to cool for 3 h whilst the talcum powder remains in suspension .	IP6X No talcum in dust-tight luminaire	P

9.2.6	IPX5 test: Jet-proof luminaires (second characteristic IP numeral 5) are switched off andimmediately subjected to a water jet for 15 min from all directions by means of a hose having anozzle with the shape and dimensions shown in Figure 8. The nozzle shall be held 3 m awaythe sample. The water pressure at the nozzle shall beadjusted to achieve a water delivery rate of12,5 l/min ± 5 % (approximately 30 kN/m^2).	IPX5 Without water insideenclosure	P

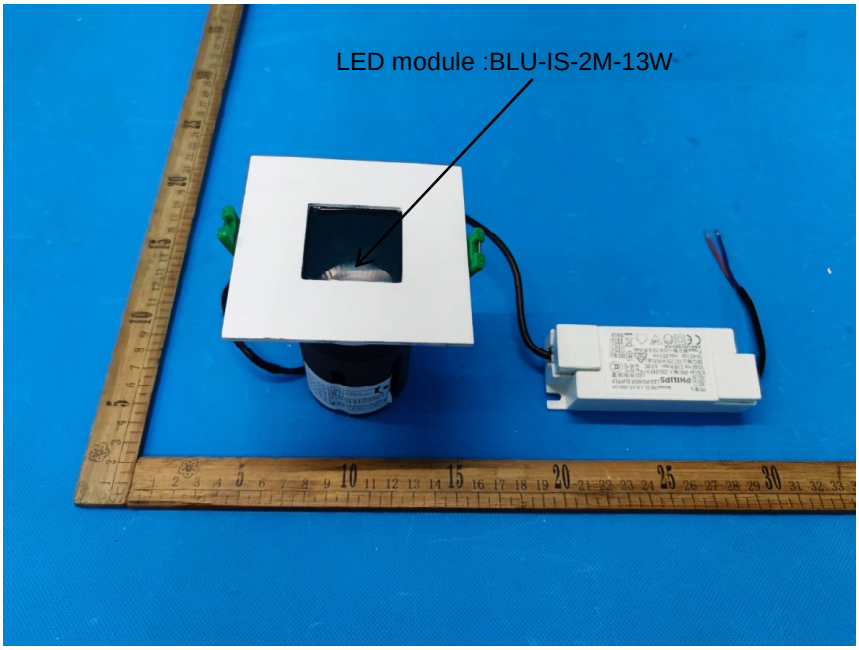
Photo document



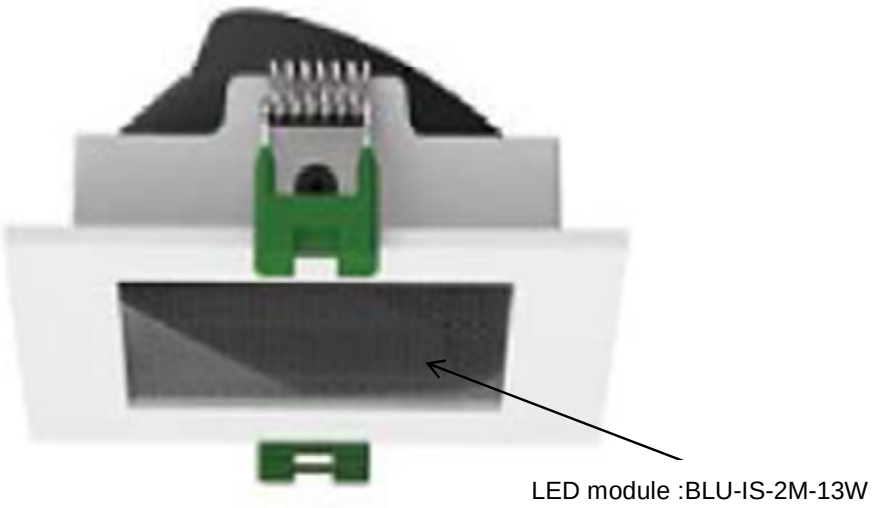
Picture 1: Overview of model BLU-ASTRO-8SF-W-IP65



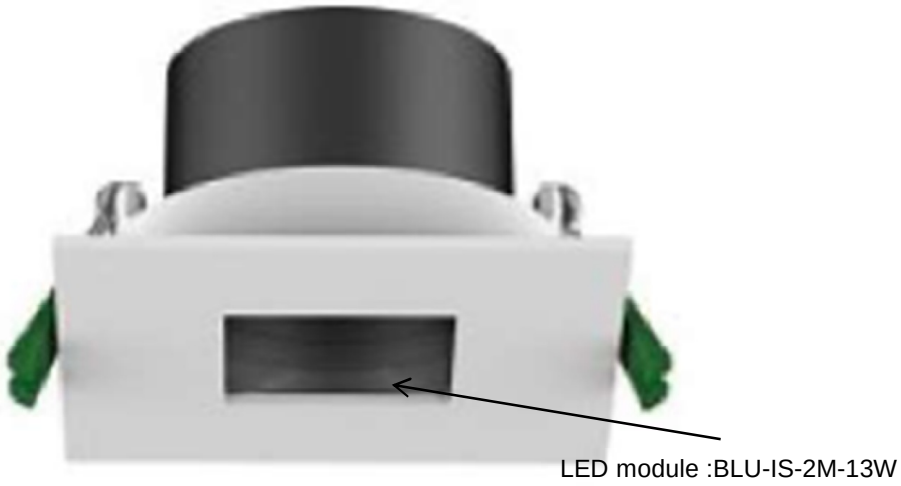
Picture 2: Overview of model BLU-ASTRO-8SF-W-IP65



Picture 3: Overview of model BLU-ACQUILLA-8SF-W-IP65



Picture 4: Overview of model BLU-ASTRO-8SA-W-IP65



Picture 5: Overview of model BLU-ACQUILLA-8SA-W-IP65

Picture 6: IPX5 test view of model: BLU-ASTRO-8SF-W-IP65

Picture 7: IP6X test view of model: BLU-ASTRO-8SF-W-IP65

---End of test report---