





SUMMARY TEST REPORT BS EN 60598-1: 2015 (Clause 9) BS EN 60529: 1992 + A1: 2000 + A2: 2013 Degree of protection provided by enclosures (IP Code)		
Report Reference No:	L7980R1	
Compiled by (+ signature):	S. Coultas & M. Luke	
Approved by (+ signature):	J. Jones	
Date of issue:	19/09/2017	
Testing Laboratory:	Cranage EMC Testing	
Address:	UK Test Centre, Wallace Way, Tern Valley Business Park, Market Drayton, Shropshire, TF9 3AG.	
Testing location	As above	
Address:	As above	
Procedure:	UKAS	
Applicant's Name:	Sedna Lighting	
Address:	Unit H6, Capital Business Park, Cardiff, CF3 2PX.	
Test Specification:		
Standards:	BS EN 60529: 1992 + A1: 2000 + A2: 2013. BS EN 60598-1: 2015 (Clause 9)	
Test procedure:	UKAS	
Test Result:	The EUT does complies with the test specification.	
EUT description:	LED Street Light	
Model:	Infinity High Power LED Street Light 60 W - WW(2800-3000K)	
Trademark:		
Manufacturer:	Sedna Lighting	
Rating:	IP66	
Date of receipt of test item:	21/08/2017 (original) & 15/09/2017 (IPX6 retest)	
Date(s) of testing:	31/08/2017 (original) & 19/09/2017 (IPX6 retest)	

Test Results Summary

Test procedures in accordance with clause 9 of BS EN 60598-1 & BS EN 60529: 1992 + A1: 2000 + A2: 2013

Before testing, it was noted that the cable originally fitted to the luminaire was not of a suitable size. When the cable gland was tightened fully, the cable could easily be moved and light was visible through the gland. The cable as then replaced before testing, and the cable gland tightened to 2/3 of the required torque as per clause 4.12.5 (1.6 Nm).

Original cable: 3ASL/75, 250-440 V, ordinary duty, Q88228 –LF-.
 Cable tested: CMK, BASEC, 3183Y, H05VV-F, 3G 2.5 mm², 300/500 V.

Rating	Test Parameters	Pass Criteria	Result
IP6X	Dust Chamber with 3.456 kg of powder being circulated.	No deposit of talcum powder in dust-proof luminaires, such that, if the powder were conductive, the insulation would fail to meet the requirements of the standard. The luminaire shall withstand the electric strength test specified in section 10 after the test.	Pass
	Duration: 3 hours		
	Temperature: 27.5 °C		
	Humidity: 41 %		
	Air Pressure: 1009.4 hPa		
		Observations	
		No dust present.	
	Electric Strength Test	Performed with the control gear disconnected @ 2121 VDC	Pass
IPX6	The sample was modified before testing. Additional silicone was added to the seal around the glass cover.	For luminaire without drain holes, there shall be no water entry. The luminaire shall withstand the electric strength test specified in section 10 after the test.	Pass
	Water flow rate: 100 L/min		
	Nozzle size: IPX6		
	Duration: 3 minutes (360 degrees directional variation)		
	Distance: 3 m		
	Air temperature: 23.9 °C		
	Water temperature: 21.9 °C		
	Humidity: 49 %		
	Air Pressure: 1009.4 hPa		
	Mounting position: Mounted on a pole as in normal use		
		Observations	
		No ingress observed.	
	Electric Strength Test	Performed with the control gear disconnected @ 2121 VDC	Pass

Test Equipment

Asset Number	Description	Date of Calibration	Calibration Due Date
AN 137	Thermocouple Reader	25/07/2017	25/07/2018
AN 305	Electric Strength Tester	30/08/2016	30/11/2017
AN 452	Stopwatch	03/10/2016	03/10/2018
AN 533	Torque Analyser	02/08/2016	02/08/2019
AN 534	Torque Driver	Verified using AN533	
AN 900	IPX6 Nozzle	13/07/2017	13/07/2020
AN 906	Petrol Water Pump	-	-
AN 1003	Water Drum	07/04/2017	07/04/2020
AN 1214	Barometric Pressure & Altitude Meter	09/12/2016	09/12/2017
AN 1321	Digital Calipers	25/10/2016	25/10/2017
AN 1408	Water Supply Barrel	N/A	N/A
AN 1417	Dust Chamber	19/06/2017	19/06/2018
AN 1424	Thermometer	05/07/2017	05/07/2018
AN 1438	Multifunctional Safety Tester	21/08/2017	21/08/2018

Photos

Luminaire under test



IP6X



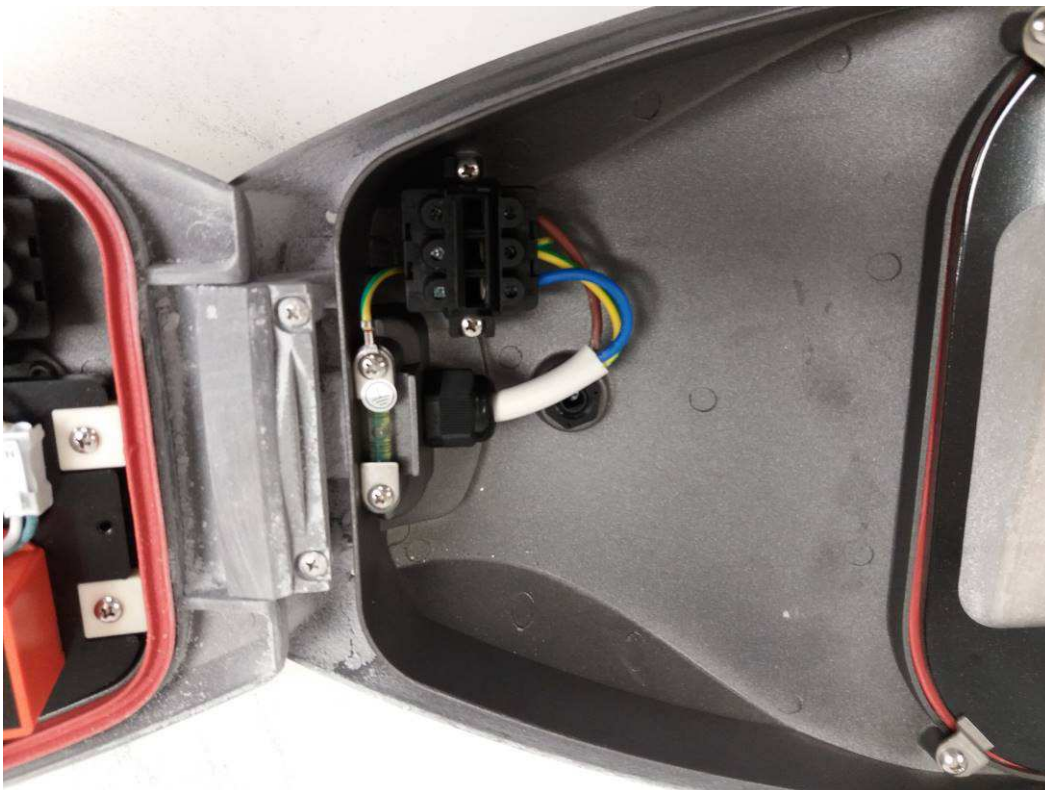
EUT in the dust chamber (post dust test)



Inside the EUT (post dust test)



Inside the EUT (post dust test)



Inside the EUT (post dust test)

IPX6



Modification made to the glass cover



IPX6 test setup



IPX6 test



Post IPX6 test



Inside the EUT (post IPX6 test)



Inside the EUT (post IPX6 test)



Inside the EUT (post IPX6 test)

End of Report
