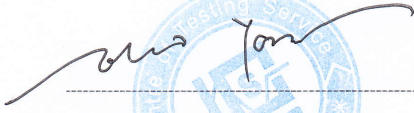


<b>TEST REPORT</b>	
<b>EN 60598-1</b>	
<b>Luminaires - Clause 9: RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE</b>	
Report reference No. ....:	LCS1409180807S
Tested by(name + signature).....:	Eko Yang 
Approved by(name +signature) .....	Hart Qiu 
Date of issue .....	September 21, 2014
Contents .....	3 pages
<b>Testing laboratory</b>	
Name .....	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address .....	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing location .....	Same as above
<b>Client</b>	
Name .....	Auroras Lighting Solution (Zhuhai ) Co., Limited
Address.....	2/F 2nd Bldg., 639# Huayu Road, Xiangzhou District, Zhuhai, Guangdong, China 519000
<b>Manufacturer</b>	
Name .....	Auroras Lighting Solution (Zhuhai ) Co., Limited
Address.....	2/F 2nd Bldg., 639# Huayu Road, Xiangzhou District, Zhuhai, Guangdong, China 519000
<b>Test specification</b>	
Standard .....	Clause 9 of EN 60598-1: 2008+A11: 2009 (RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE)
Test procedure .....	Compliance with Clause 9 of EN 60598-1: 2008+A11: 2009 (RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE)
Non-standard test method .....	N/A
<b>Test item Description.....</b>	
LED Down Light	
Trademark .....	MRAURORAS
Model and/or type reference.....	AS-HP12WSN, AS-HP10WSN, AS-HP7WSN
Rating(s).....	For LED Down Light: DC 16-48V, 300mA, 12W, IP65 For LED Driver: PRI: 220-240V~, 50/60Hz, IP20 SEC: 16-45VDC, 300mA

**Test item particulars**

Classification of installation and use .....: Class III

Supply Connection .....: Connector

**Test case verdicts**

Test case does not apply to the test object : N(N/A)

Test item does meet the requirement .....: P(Pass)

Test item does not meet the requirement ...: F(Fail)

**Testing**

Date of receipt of test item.....: September 16, 2014

Date(s) of performance of test.....: September 16, 2014 – September 21, 2014

**General remarks**

This report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

Clause numbers between brackets refer to clauses in EN 60598-1.

"(see remark #)" refers to a remark appended to the report.

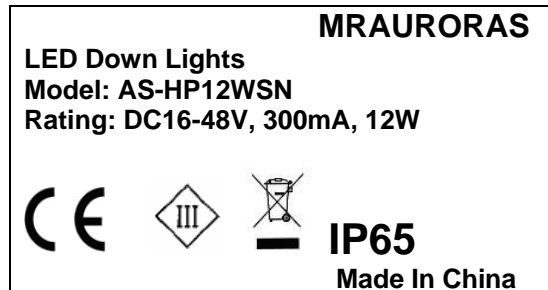
"(see Annex #)" refers to an annex appended to the report.

Throughout this report a comma is used as the decimal separator.

**General product information;**

- 1) This product is made up of LED driver and LED model. The LED driver is IP20, The LED model is IP65. The product is recessed luminaire.
- 2) The test report include: Attachment No. 1: 2 page of Photo Documentation.

**Copy of marking plate**



EN 60598-1			
Clause	Requirement - Test	Result - Remark	Verdict

<b>9</b>	<b>RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE</b>		<b>P</b>
	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP .....: IP65		P
	- mounting position during test .....:		P
	- fixing screws tightened; torque (Nm) .....:		P
	- tests according to clauses .....:		P
	- electric strength		P
	a) no deposit in dust-proof luminaire		N
	b) no talcum in dust-tight luminaire		P
	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard		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		N
	f) no contact with live parts (IP 2X)		N
	f) no entry into enclosure (IP 3X and IP 4X)		N
	f) no contact with live parts (IP3X and IP4X)		N
	g) no trace of water on part of lamp requiring protection from splashing water		P
	h) no damage of protective shield or glass envelope		N

# ATTACHMENT 1

## Photo Documentation

View:  
Model:  
**AS-HP12WSN**

- General
- Front
- Rear
- Internal
- Top
- Bottom
- PWB



Figure 1

View:

- General
- Front
- Rear
- Internal
- Top
- Bottom
- PWB



Figure 2

# ATTACHMENT 1

## Photo Documentation

View:

- General
- Front
- Rear
- Internal
- Top
- Bottom
- PWB



Figure 3 (For IP65 test)