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TEST REPORT EN IEC 60598-1

Luminaires

Part 1: General requirement and tests

Report reference No. :	AOCE260509747-IP
Tested by (name + signature)..... :	Son An
Supervised by (name + signature)..... :	Xena Xie
Approved by (name + signature)..... :	Sanji Guan
Date of issue..... :	2026-06-12
Testing Laboratory Name	Zhongshan AOCE Testing Technology Co., Ltd.
Address	5/F, Building A, No.5 Jingdi Road, Henglan, Zhongshan, Guangdong, China.
Applicant's Name	ZHEJIANG ALITE LIGHTING CO., LTD
Address	2nd Floor, 8th Building, No. 188 East Development Avenue, Taizhou City, Zhejiang, China
Standard..... :	EN IEC 60598-1:2024+A11:2024
	Clause 11.2.3& 11.2.9 IP66
Test procedure	IP66
Non-standard test method	N/A
Test Report Form No.	TRF.EN IEC 60598_1C
TRF originator..... :	AOCE
Master TRF	Dated 2026-06
Test result	Pass
Test item description	LED STREET LIGHT
Trademark	
Manufacturer..... :	ZHEJIANG ALITE LIGHTING CO., LTDD 2nd Floor, 8th Building, No. 188 East Development Avenue, Taizhou City, Zhejiang, China
Model and/or type reference	ZS03 120W, other model See General product information
Rating(s) (V; Hz)..... :	85-265V~, 50/60Hz, 120 W Max.. IP66

Summary of testing:**Testing location:**

Zhongshan AOCE Testing Technology Co., Ltd.

5/F, Building A, No.5 Jingdi Road, Henglan, Zhongshan, Guangdong, China.

Tests performed (name of test and test clause):

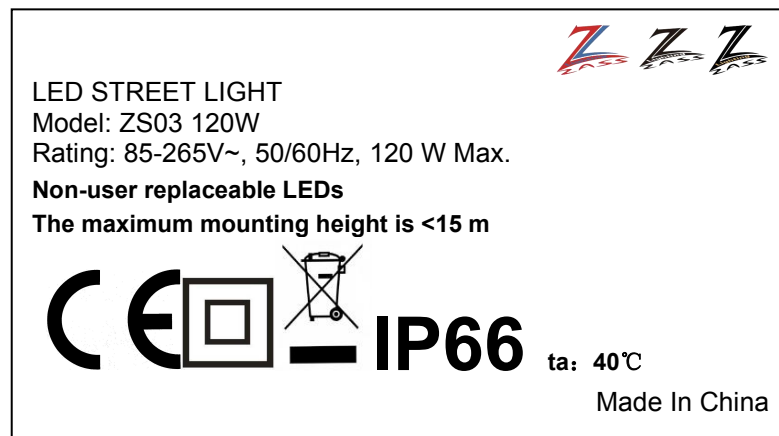
- EN IEC 60598-1:2024+A11:2024

Marking label, instruction manual, packing text: Instructions and marking shall be in a language acceptable for the country where the equipment is to be used.

Other product properties: Depending on the country where the equipment is to be used, national deviations may be considered. Samples of the modified product may be tested again according to relevant clauses of the product standard, modified by national deviations.

Summary of compliance with National Differences:

N/A

Copy of marking plate**Remark:**

The above marking are in the minimum requirements required by safety standard. For the final production sample, the marking which do not give rise to misunderstanding may be add.

height of letters and numerals at least 2mm, height of other marks at least 5mm.

Labels are representative, other models of the same series have similar format.

Test item particulars : Supply Connection..... : Power cord Protection class..... : Class II Degree of protection..... : IP66	
Possible test case verdicts: - test case does not apply to the test object..... : N (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..... : 2026-05-08 Date(s) of performance of tests..... : 2026-05-08 to 2026-06-12	
Attachment No. 1: Photo documentation.	
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. Throughout this report a comma is used as the decimal separator. Clause numbers between brackets refer to clause in EN 60598-1	
General product information: This product is LED STREET LIGHT. for outdoor use only. All model's name: ZS03 120W, ZS03 60W, ZS03 75W, ZS03 80W, ZS03 100W, ZS03 120W, ZS03 150W, ZS03 160W, ZS03 180W have same construction and BOM, only the size shape and power different with marketing requirement. All tests were conducted on the representative model ZS03 120W.	

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

0	GENERAL TEST REQUIREMENTS		P
0.1	Information for luminaire design considered.....:	Yes ☐ No ☒	—
0.3	More sections applicable.....:	Yes ☐ No ☒ Section/s:	—

2	CLASSIFICATION OF LUMINAIRES		P
2.2	Type of protection	Class II	P
2.3	Degree of protection.....:	IP66	P
2.4	Luminaire suitable for direct mounting on normally flammable surfaces.....:	Yes ☒ No ☐	—
2.5	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—

(9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
(-)	If IP > IP 20 the order of tests as specified in clause 1.12		P
(9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP.....:	IP66	—
	- mounting position during test.....:	As in normal use	—
	- fixing screws tightened; torque (Nm).....:	0.33Nm	—
	- tests according to clauses.....:	Clause 11.2.3& 11.2.9	—
	- electric strength test afterwards	3060V	P
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire	IP6X	P
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		P
	c.1) For luminaires without drain holes – no water entry	IPX6	P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire		N/A
	e) no contact with live parts (IP 2X)		N/A
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A

EN IEC 60598-1			
Clause	Requirement + Test	Result - Remark	Verdict
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		N/A
9.3	Humidity test 48 h		N/A

Attachment No. 1
Photo documentation

Photo 1 Overall view



Photo 2 Overall view



Photo 3 Dustproof test view



Photo 4 Dustproof test view



Photo 3 Waterproof test view



Photo 4 Waterproof test view



----- END OF THE REPORT -----

STATEMENT

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

If you have any objection to this report, please submit it to the test unit within 15 days from the date of receipt of the report.

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