

TEST REPORT

Model	UNDERWATER LED BULB
Manufacture by	AQUA
Test Category	Electrical & quality analysis

DIRECTIONS

Product: Underwater LED bulb PAR 56 AC

Place of Testing: Aqua Quality Control Center

Date: Periodic re-testing is carried out annually in January to verify continued compliance

APPLICABLE STANDARDS

IEC 60598-2-18:2022 – Luminaires for Swimming Pools and Similar Applications

IEC 60598-1:2024 – Luminaires – General Requirements and Tests

IEC 62031:2018 – LED Modules for General Lighting – Safety Specifications

IEC TR 62778:2014 – Blue Light Hazard Assessment

IEC 62493:2015+A1:2022 – Assessment of Electromagnetic Fields (EMF)

IEC 61347-2-13:2014+A1:2016 – LED Control gear Safety Requirements

IEC 61347-1:2015+A1:2017 – General and Safety Requirements for Lamp Control gear

LIST OF MODELS

Model	Rating
E-120-252-W	AC12V, 50/60Hz, 18W
E-120-252-WW	AC12V, 50/60Hz, 18W
E-120-252-RGB	AC12V, 50/60Hz, 18W
E-120-333-W	AC12V, 50/60Hz, 24W
E-120-333-WW	AC12V, 50/60Hz, 24W
E-120-333-RGB	AC12V, 50/60Hz, 24W
E-120-441-W	AC12V, 50/60Hz, 35W
E-120-441-WW	AC12V, 50/60Hz, 35W
E-120-441-RGB	AC12V, 50/60Hz, 35W
E-120-252-W	AC12V, 50/60Hz, 18W

VISUAL INSPECTION

Inspection Item	Result
Front Glass	PASS
LED Module	PASS
Silicone Seal	PASS
Cable Entry	PASS
Product Marking	PASS
General Finish	PASS

DIMENSIONAL VERIFICATION

Inspection Item	Result
Outside Diameter	PASS
Mounting Diameter	PASS
Front Thickness	PASS
Cable Length	PASS

ELECTRICAL VERIFICATION

Inspection Item	Result
Rated Voltage	PASS
Frequency	PASS
Rated Power	PASS
Current	PASS
LED Operation	PASS

FUNCTIONAL INSPECTION

Inspection Item	Result
LED Illumination	PASS
White Light Output	PASS
Warm White Output	PASS
RGB Color Change	PASS
Water Tightness (Visual)	PASS
Cable Integrity	PASS
Mechanical Assembly	PASS
Protection Rating – IP68	PASS
Operating Temp. (1 to +45°C)	PASS
Acid-proof, alkali-proof and UV resistant	PASS

PACKING INSPECTION

Inspection Item	Result
Product Label	PASS
User Manual	PASS
Accessories	PASS
Packaging Condition	PASS
Quantity	PASS

Conclusion: The above underwater LED pool light have been inspected and tested in accordance with the manufacturer's standard quality control procedures. The products comply with the applicable technical requirements and are approved for dispatch.

Result: **PASS.**

Authorized Signature and Company Stamp

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