

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.

This certificate is issued to:

PRODUCER	AQUALUMA UNDERWATER LIGHTING
PLACE OF PRODUCTION	Unit 4, 54 Siganto Drive, Helensvale, Queensland 4212, Australia
DESCRIPTION	Underwater LED Light
TYPE	AQUALUMA Series AQL BW3 : Blue, Wide Beam Type AQL BN3 : Blue, Narrow Beam Type AQL WW3 : White, Wide Beam Type AQL WN3 : White, Narrow Beam Type AQL GW3 : Green, Wide Beam Type AQL GN3 : Green, Narrow Beam Type
APPLICATION	Fixed underwater lighting on ships and offshore installations
ADDITIONAL TEST	Enclosure Test: IP 68 (IEC 60529) Test Pressure: (1.5 x nominated operating pressure) - Front Mount: 73.6 kPa (7.5m depth) for 30 min - Reverse Mount: 73.6 kPa (7.5m depth) for 30 min
STANDARD/ DESIGN CODE	AS/NZS 60598.1-2003 (IEC 60598-1), AS/NZS 60598.2.18:1998 (IEC 60598-2-18), AS 60529-2004 (IEC 60529)
OPERATIONAL LIMITATIONS	Luminaries for swimming pools and similar applications are to be operated at voltages not exceeding 12V.
RATINGS	Power Supply: 12/24V d.c. Load: 6/8 Watt
Certificate No.	07/10050
Issue Date	26 September 2007
Expiry Date	25 September 2012
Sheet	1 of 2



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Lloyd's Register Asia

OTHER CONDITIONS

The installation is to be carried out in accordance with the manufacturer's fitting instruction and applicable Rules and Regulations when installed on LR classed vessels.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 07/10050 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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