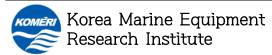
# Test Report



24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Republic of Korea Tel +82-51-400-5200, Fax +82-51-400-5210

Report No.:

KOMERI-0307-22T2322(E)

http://www.komeri.re.kr





# 1 Applicant

o Company Name : ILOOKS Co., Ltd.

o Address: (46979) 3, Saebyeoksijang-ro 57beon-gil, Sasang-Gu, Busan, F

Korea

2. Equipment under Test

Name of Product : LED steady Warning Light

o Model : AUW-L100

o Serial No.: -

3. Test Standards: KS C IEC 60529:2013 Degree of protection provided by enclosure (IP

CODE)

**4. Test Period**: 2022, 08, 30 ~ 2022, 10, 12

5 Test Site: ■ Permanent Testing Lab □ On Site Testing

(Address: 24-20, Noksansandan 335-ro, Gangseo-gu, Busan 46754, Republic of Korea)

6. Test Result: Conformity(IP54)

Note 1 The information of the sample(s) in this test report is provided by the applicant. And you can check website (www.g4b.go.kr) to verify the authenticity of the certificate

Note 2. The result shown in this test report are only limited in to the samples provided by the applicant and do not guarantee the quality of all products of the applicant

Note 3 This test report shall be used only within the purpost of its defined use and shall not be used for public relation advertisement and lawsuit

Tested by

Affirmation Name:

Sang-Jin LEE

Technical Manager

Name: Dong-Geon KIM

Tsignature)

This test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA and related to KS Q ISO/IEC 17025 and KOLAS accreditation.

Date of issue: 2022, 11, 15,

Accredited by KOLAS, Republic of KOREA

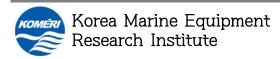
The President of Korea Marine Equipment Research Institute Wigner Land











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## ■ GENERAL

* Test condition	Status	Note
opened without the use of a key or tool	✓ Yes 🗌 No	
be used additional material for degrees of protection	✓ Yes 🗌 No	Silicone
not exceeded a rated voltage of 72.5 kV	✓ Yes 🗌 No	
be charged or operated during the test	☐ Yes ✓ No	

#### NOTE 1) The recommended atmospheric conditions during the tests

Temperature : (15  $\sim$  35) °C, Humidity : (25  $\sim$  75) % R.H., Atmospheric pressure : (86  $\sim$  106) kPa

#### NOTE 2) EUT installation

Unless otherwise specified in a relevant product standard, the test samples for each test shall be a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer.

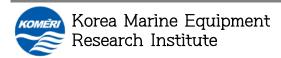
### NOTE 3) Empty enclosures

If the enclosure is tested without equipment inside, detailed requirements shall be indicated by the enclosure manufacturer in his instructions for the arrangement and spacing of hazardous parts or parts which might be affected by the penetration of foreign objects or water.

The manufacturer of the final assembly shall ensure that after the electrical equipment is enclosed the enclosure meets the declared degree of protection of the final product.







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# 1. IP TEST

#### 11 TEST STANDARD

· KS C IEC 60529:2013 Degree of protection provided by enclosure (IP CODE)

### 1.2 TEST RESULTS

# Table 1-1 Protection of persons against access to hazardous parts

Test item	Criterion	Result
IP5X	• The sphere shall not fully penetrate and adequate clearance shall be kept. • A diameter of the test probe : $\phi$ 1.0 mm • Test force : (1 $\pm$ 0.1) N	Conformity

### Table 1-2 Protection against solid foreign objects

Test item	Criterion	Result
I PSX	<ul> <li>Ingress of dust is not totally prevented but dust shall not penetrate in a quantity to interfere with satisfactory operation of the apparatus or to impair safety.</li> <li>Test depression: N/A</li> <li>Test druation: 8 hours</li> </ul>	Conformity (Dust has penetrated into the inside of the enclosure, but it works normally)

Note) Category II: Enclosures where no pressure difference relative to the surrounding air is present

#### Table 1-3 Protection against water

Test item	Criterion	Result
	• Flow rate : (10 $\pm$ 0.5) L/min • Distance from nozzle to enclsoure surface : 0.3 m $\sim$ 0.5 m • Test direction : all practicable directions	
	· Test duration : 5 min.	
	· After test, the enclosure shall be inspected for ingress of water.	
IPX4	** In general, if any water has entered, it shall not  · be sufficient to interfere with the correct operation of the equipment or impair safety  · deposit on insulation parts where it could lead to tracking along the creepage distances  · accumulate near the cable end or enter the cable if any  · If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment,  · For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.	Conformity

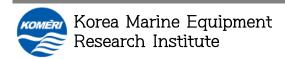
<sup>\*</sup> the water temperature should not differ by more than 5 K from the temperature of the EUT





KOMERI-Lab-P-7,8-02(2)





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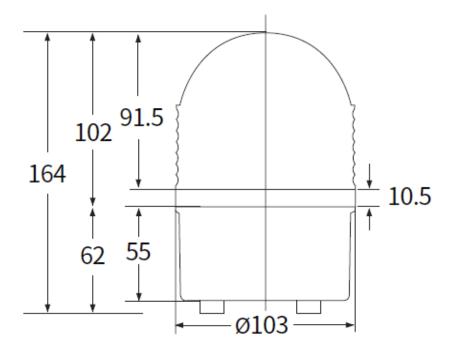


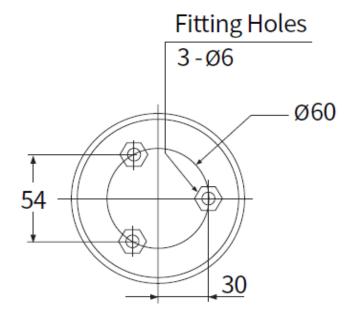


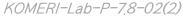
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#### ■ ATTACHMENT I. DRAWINNG

단위: mm



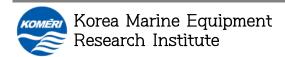












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# ■ ATTACHMENT II. TEST RESULT









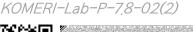








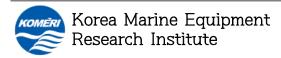












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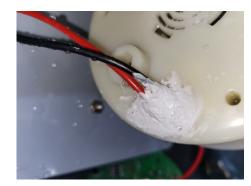








# ■ ATTACHMENT III. EQUIPMENT UNDER TEST







KOMERI-Lab-P-7.8-02(2)