Korea Institute of Lighting & ICT
KILT 한국조명ICT연구원

Report No.
KILT2011-F08869

TEST REPORT

1. **Applicant**
   - **Client Name** : Qlight Co., Ltd.
   - **Address** : 185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsangnam-do, Korea
   - **Date of Receipt** : 2020. 09. 22
2. **Purpose of Report** : Quality Assurance
3. **Test Standard/Item** : Standard at the client's request [ICAO Annex 14 Volume I Eighth Edition, July 2018] / Effective intensity, Chromaticity
4. **Test Period** : 2021. 03. 22 ~ 2021. 06. 16
5. **Test Environment**
   - **Ambient Temp.** : (25 ± 3) ℃
   - **Relative Humidity** : 65 % R.H. Below
6. **Test Result** : **Refer to Test Result**

Sample Description

Product Type : LED obstacle light (Low-intensity, Type B)
Model : QEAL1
Rating : DC 24 V

Note : 1. The test results in this report only apply to the test sample(s) and the test report is forbidden to use for anything other than intended use.
2. This report cannot be reproduced in part without the prior written permission from Korea Institute of Lighting Technology.
3. The report without "KILT" perforations is not recognized as the original report.
4. The authenticity of this test report can be proved by the contact below.
5. This report is irrerelevant to KS Q ISO/IEC 17025 and KOLAS accreditation.

Tested by: Kyeong-Sik Kim

Approved by: Jong-bin Park

2021. 06. 16

KOREA INSTITUTE OF LIGHTING & ICT

Daewoo Technopark A-403, 261, Doyak-ro, Gyeonggi-do, Korea (14523)
TEL : 032-670 - 8888, FAX : 032-670 - 8889

TEST RESULT

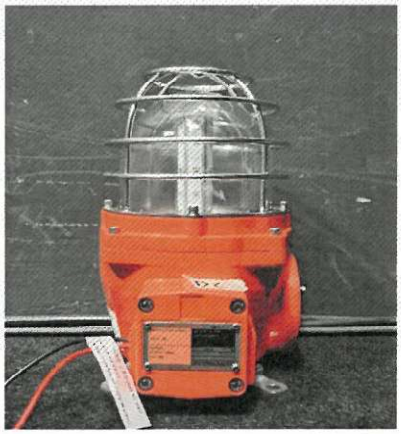
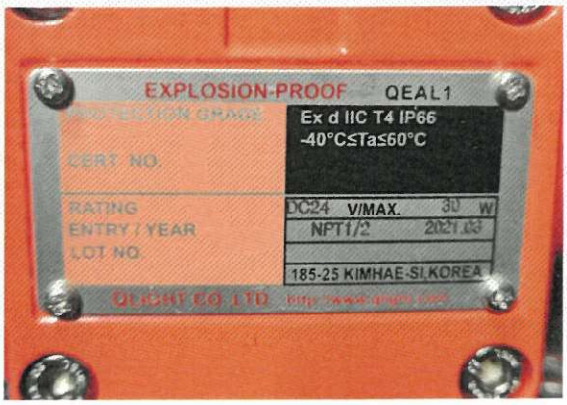
1. Test Result

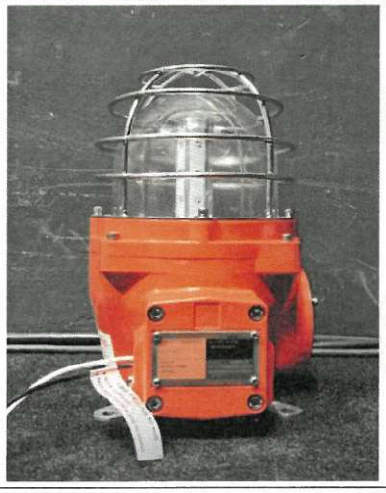
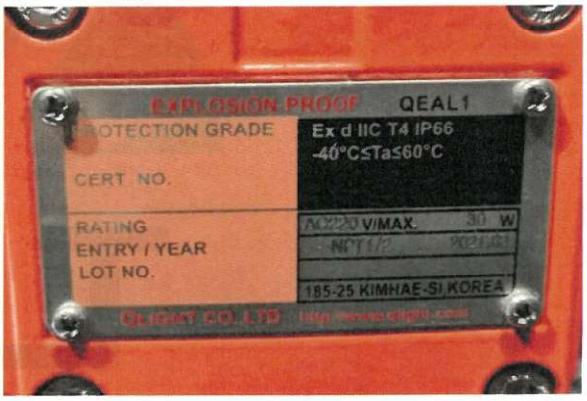
Test Item	Test Requirement		Unit	Result			Remark
				n1	n2		
				DC 24 V	AC 110 V	AC 220 V	
Effective intensity	The minimum luminous intensity of 360° horizontal plane for vertical elevation angle 2° ~ 10° shall be more than 32 cd		cd	41	40	40	Refer to Attachment (Page 4 ~ Page 15)
	The vertical beam spread satisfying 16 cd or more for 360° horizontal plane shall be more than ≥ 10°		°	84	85	86	
Chromaticity	The chromaticities of aeronautical ground lights shall be within the red boundaries (Purple boundary y = 0.980 - x Yellow boundary y = 0.335)	x	-	0.692 1	0.677 9	0.679 2	Refer to Attachment (Page 16 ~ Page 18)
		y	-	0.303 9	0.307 6	0.305 3	

※ This test is the result of testing using the sample provided by the applicant.
※ The n1 sample was tested by supplying DC 24 V power.
※ The n2 sample was tested by supplying AC 110 V and 220 V power.

2. Test Sample

[Sample Picture]

n1	
	
Light source	

n2	
	
Light source	