

Ledworks SRL

SCOPE OF WORK

ErP Test Report

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ErP Test Report_2019/2020_B_ Exemption

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TEST REPORT

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Sample Description

Name of Sample : Twinkly Sqaures
Model Number : TWQ064STW-01-B, TWQ064STW-01-S
Quantity of Sample(s) : 1pc
Date of Receival : 15 June 2022
Date of test Conducted : 15 June 2022 to 04 July 2022

Test

Test Requested : Performance requirements according to client's requirements
Test Method : Refer to Regulation (EU) 2019/2020, and Corrigendum,
Amending Regulation (EU) 2021/341;
Regulation (EU) 2019/2015,
Amending Regulation (EU) 2021/340
Test Conclusion: : See appended test result
Other information : Input:100-240V, 50/60Hz;
Remark :

- This test report is only for evaluation of the specified standard clauses listed in Test Requested.
- when determining the test conclusion, the Measurement Uncertainty of test has been considered according to Accuracy Method stated in IEC Guide 115.
- Throughout this report a point is used as the decimal separator.

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Tested by:

Yong Li

Yong Li / Engineer

Approved by:

Shelley Ying

Shelley Ying / Reviewer

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Test Summary:

1. No Pre-conditioning for LED lamp before initial measurement.
2. All measurements were conducted at stable ambient temperature $25^{\circ}\text{C} \pm 1^{\circ}\text{C}$.
3. The test was performed with the lamp in base-up position.
4. Testing input: 230V /50Hz.
5. TWQ064STW-01-B and TWQ064STW-01-S has the same LED, same power consumption, same mechanical parts, but the TWQ064STW-01-B has the WiFi/Buletooth module, TWQ064STW-01-S hasn't it.

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Result:

1. Definitions and Chromaticity coordinate requirement for 'light source':

'light source' means an electrically operated product intended to emit, or, in the case of a non-incandescent light source, intended to be possibly tuned to emit, light, or both, with all of the following optical characteristics:

(a) chromaticity coordinates x and y in the range

$$0,270 < x < 0,530 \text{ and}$$

$$-2,3172 x^2 + 2,3653 x - 0,2199 < y < -2,3172 x^2 + 2,3653 x - 0,1595;$$

(b) luminous flux < 500 lumen per mm² of projected light-emitting surface area as defined in Annex I;

(c) luminous flux between 60 and 82 000 lumen;

(d) colour rendering index (CRI) > 0;

2. Initial color performance measurements:

Model No.	Luminous flux (lm) (<60 lm or >82000 lm)	Color Temperature	Chromaticity Coordinate		Exemption Limits			Verdict
			x	y	Limit for x	y <	Or y >	
TWQ064STW-01-B (White-mode)	5.97	12590 K	0.2684	0.2773	x < 0.270 or x > 0.530	0.248	0.308	Exempt

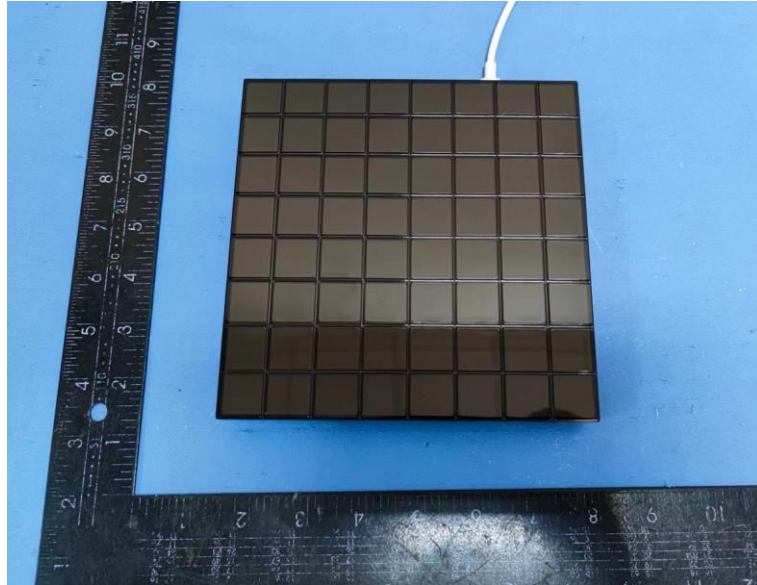
3. Conclusion:

The product is not under the Article 2 "Definitions" for 'Light source', according to EU 2019/2020, because the luminous flux and chromaticity coordinates x/y does not fall in the range of 'Light source'.

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Appendix Photos:



Overall view of model **TWQ064STW-01-B**



LED driver view of model **TWQ064STW-01-B**

*****End of report*****