

广州市微生物研究所有限公司

GUANG ZHOU INSTITUTE OF MICROBIOLOGY CO., LTD.

检测报告

TEST REPORT

Report Number

QX20210281

Name of Sample

UVC Air Disinfection Unit

Applicant

Signify Luminaires (Shanghai) Co., Ltd.

检验检测专用章







TEST REPORT

Date Received: Jul. 02, 2021 Date Analyzed: Jul. 05, 2021

	A. S.	Dute Tillary	zed. Jul. 03, 2021
Name of Sample	UVC Air Disinfection Unit	Source of Sample	Delivery
Applicant	Signify Luminaires (Shanghai) Co., Ltd.	Client	Kang Yangying
Manufacturer	Zhejiang Howell Illuminating Technology Co., Ltd.	Brand	
Type and Specification	UVCA210	Quantity of Sample	1PC
Date of Production	2021.05.28	State of Sample	Machine
Batch Number	_ 300	Packing of Sample	In box
Standard and Methods	 GB 28235-2020 Hygienic requirements f <technical disinfection="" for="" standard="">20 test</technical> 		
Items of Analysis	 Ozone Leakage Ultraviolet Leakage Field Test (Natural bacteria in air) 	,0°Y,00	(8)
Remarks	Applicant Address: 2F, Building 1, No.2555, I Manufacturer Address: No.1228 Tanjialing Wo Zhejiang, China.		(- ()

To be continued







TEST REPORT

Date Received: Jul. 02, 2021 Date Analyzed: Jul. 05, 2021

Methods for Ozone Leakage:

- 1. Test Equipment
 - Model T400 Ozone analyzer
- 2. Operation Conditions of the Machine
 - Set the switch to position "the highest wind speed".
- 3. Test Procedure
 - 1) Place the sample to be tested in 30 m³ confined space.
 - 2) Test the background concentration.
 - 3)After the sample is turned on, the ozone concentration at 1.5 m away from the ground is measured according to the standard requirements, and the determination time is 1 h. The results are averaged.

Test Results

Number of Sample	Test Item	300	Test Result (mg/m³)		Standard Request (mg/m³) (GB 28235-2020)
@ QX20210281-1	Ozone Leakage		< 0.003	* *	≤0.1

To be continued











TEST REPORT

Date Received: Jul. 02, 2021 Date Analyzed: Jul. 05, 2021

Methods for Measuring Ultraviolet Leakage:

1. Test Equipment

Model ST-512 ultraviolet radiometer, sensibility: 1µW/cm²

2. Operation Conditions of the Machine

Set the switch to position "the highest wind speed".

- 3. Test Procedure
 - 1) Test the background concentration.
 - 2) Turn on the sample and measure its radiation illumination with ultraviolet radiometer 30cm from the periphery of the sample after stabilization.

Test Results

Number of Sample	Test Item	Test Result (μW/cm²)	Standard Request $(\mu \text{W/cm}^2)$ (GB 28235-2020)
QX20210281-1	Ultraviolet Leakage	<1	≤5 €

To be continued







TEST REPORT

Date Received: Jul. 02, 2021 Date Analyzed: Jul. 05, 2021

Method for Testing Air Disinfection:

1. Test Equipment:

1) Culture media: NA

2) Sampling equipment: six-stage sieve sampler

3) Test space: 30 m³

2. Operation Conditions of the Machine

Set the switch to position "the highest wind speed".

3. Test Procedure

1) The equipment is placed in the test space, close the door, and collect natural bacteria by six-stage sieve sampler, as the bacterial count before disinfection.

2) Start the sample and shut it down after running for 120 min. The natural bacteria are collected by six-stage sieve sampler, as the bacterial count after disinfection.

3) In sampling, place the sampling equipment in the center of test chamber at the height 1.0 meter.

4) Choose 2 NA plates (the same batch) as the negative control, and culture them on the same condition as the samples.

5) The tests repeat three times, and calculate the death rate respectively.

4. Death Rate $K_t(\%) = \frac{V_0 - V_t}{V_0} \times 100$

where: V_0 = The Average Bacterial Count in Air before Disinfection;

 V_{i} = The Average Bacterial Count in Air after Disinfection.

Test results

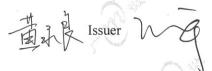
Number of Sample	Test Strain	Test Time (min)	Test Number	The Average Bacterial Count in Air before Disinfection V_0 (cfu/m ³)	The Average Bacterial Count in Air after Disinfection V_t (cfu/m³)	Death Rate K_t (%)
	The state of the s		1	2.61×10 ³	1.41×10 ²	94.60
QX20210281-2	Natural Bacteria in	120	2	2.23×10 ³	1.27×10 ²	94.30
Air	Air	50	3	2.47×10 ³	1.70×10 ²	93.12

Note: The negative control group was sterile growth.

End of report



Checker





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Statements

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- 6. Any ambiguity by the language which used in the report, the Chinese shall prevail.

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