

TEST REPORT: 7191251575-CHM21-CXJ

Date: 15 JAN 2021

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SUBJECT

Test of LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 on Its Performance on Ozone Emission

CLIENT

ARID Builders Pte Ltd
11 Beach Road
#03-01 Crasco Building
Singapore 189675

Attn: Mr. James Paul Pilande

SAMPLE SUBMISSION DATE / TEST DATE

7 Jan 2021 / 11 Jan 2021

DESCRIPTION OF PRODUCT

The photo of LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 tested is showed in Annex A.

METHOD OF TEST

Ozone emission test is done by in-house method TTS-CHM-TM-030-08. The LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 power is switched on, the concentration of ozone (O₃) at outlets of air flow is monitored by an ozone sensor meter for 30 minutes.



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RESULTS

Table 1: Results of ozone concentration at outlets of LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063, unit: ppm

Time, Minute	Ozone level without LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 in operation	Ozone level with LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 in operation	
		Outlet A	Outlet B
0	< 0.01	< 0.01	< 0.01
1	< 0.01	< 0.01	< 0.01
2	< 0.01	< 0.01	< 0.01
3	< 0.01	< 0.01	< 0.01
4	< 0.01	< 0.01	< 0.01
5	< 0.01	< 0.01	< 0.01
6	< 0.01	< 0.01	< 0.01
7	< 0.01	< 0.01	< 0.01
8	< 0.01	< 0.01	< 0.01
9	< 0.01	< 0.01	< 0.01
10	< 0.01	< 0.01	< 0.01
11	< 0.01	< 0.01	< 0.01
12	< 0.01	< 0.01	< 0.01
13	< 0.01	< 0.01	< 0.01
14	< 0.01	< 0.01	< 0.01
15	< 0.01	< 0.01	< 0.01
16	< 0.01	< 0.01	< 0.01
17	< 0.01	< 0.01	< 0.01
18	< 0.01	< 0.01	< 0.01
19	< 0.01	< 0.01	< 0.01
20	< 0.01	< 0.01	< 0.01
21	< 0.01	< 0.01	< 0.01
22	< 0.01	< 0.01	< 0.01
23	< 0.01	< 0.01	< 0.01
24	< 0.01	< 0.01	< 0.01
25	< 0.01	< 0.01	< 0.01
26	< 0.01	< 0.01	< 0.01
27	< 0.01	< 0.01	< 0.01
28	< 0.01	< 0.01	< 0.01
29	< 0.01	< 0.01	< 0.01
30	< 0.01	< 0.01	< 0.01

The allowable limit of ozone concentration is no more than 0.05 ppm in NEA "Guidelines for Good Indoor Air Quality in Office Premises"



CONCLUSION

The maximum Ozone concentration is less than 0.01 ppm at outlets of LumenAire™ Pendant Light UV Air Disinfection Device Model PLP-ALU6063 during 30 minutes' operation. The ozone emission monitored in the test is within the allowable limit of no more than 0.05 ppm in Singapore National Environment Agency (NEA) "Guidelines for Good Indoor Air Quality in Office Premises".

Handwritten signature of Chen Xinyi Joeey in black ink.

CHEN XINYI JOEY
CHEMIST
ELEMENTAL ANALYSIS

Handwritten signature of Dr Yang Lei in black ink.

DR YANG LEI
EXECUTIVE CONSULTANT
ELEMENTAL ANALYSIS
CHEMICAL CENTRE



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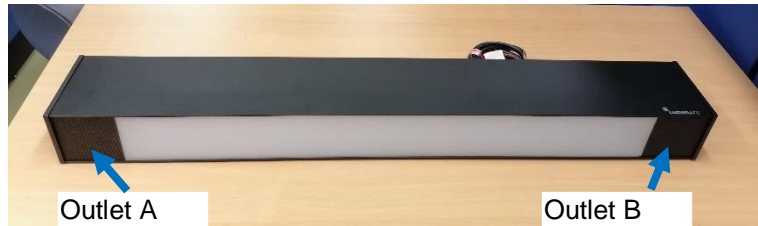


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Annex A:

Product Name LumenAire™ Pendant Light UV Air Disinfection Device

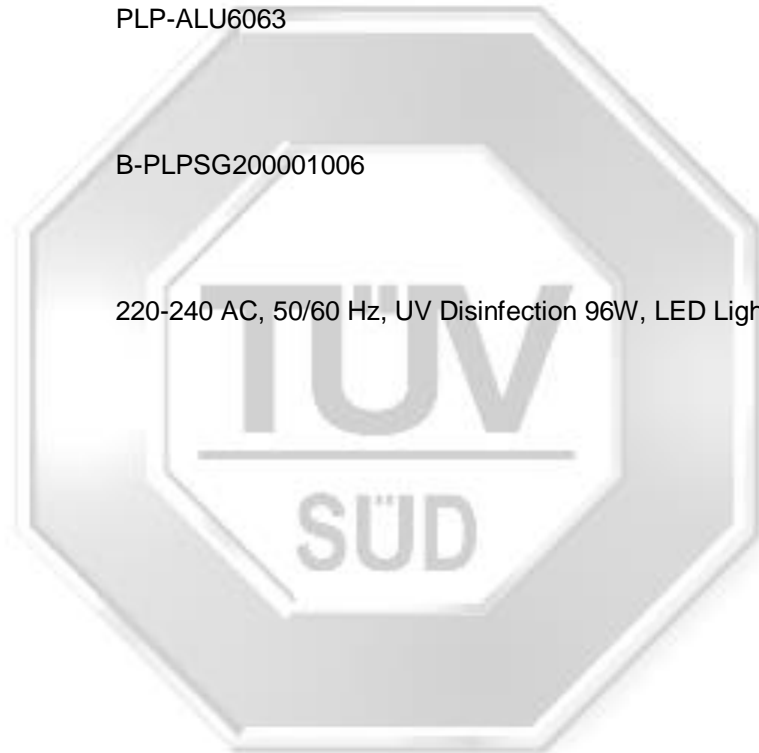
Photo



Model PLP-ALU6063

SN B-PLPSG200001006

Electrical rating 220-240 AC, 50/60 Hz, UV Disinfection 96W, LED Light 156W



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July 2011

