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ULTRA-TECH LIGHTING LLC

TEST REPORT

SCOPE OF WORK
MODIFIED - ASTM E2180-18 Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials

PRODUCT:
Ultraviolet fixture STRL-PU-250WUV

REPORT NUMBER
104732049COL-002

ISSUE DATE
19-July-2021

PAGES
3

DOCUMENT CONTROL NUMBER
GFT-OP-10h (6-July-2017)

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MICROBIOLOGICAL PERFORMANCE TEST REPORT

Client		Ultra-Tech Lighting LLC PO Box 566 Closter, NJ 07624 USA
Project No.		**G104732049**
Sample	Product	Ultraviolet Fixture
	Model	STRL-PU-250WUV
	Identification No.	COL210631154-002
	Date Received	June 30, 2021
	Condition	New/Good
	Production or Prototype	Production
Procedural	Engineer	Amanda Mastronicolas
	Reviewer	Nicholas Unger
	Dates Tested	July 14, 2021 – July 16, 2021
	Report Date	July 19, 2021
Standard	**MODIFIED - ASTM E2180 (2018) -** Standard Test Method for Determining the Activity of Incorporated Antimicrobial Agent(s) In Polymeric or Hydrophobic Materials	

Test Prep: A test organism coated test substrate was placed at 10’ away from the center of the UV fixture. The unit was allowed to run at different durations over the test substrate and then removed. The distance and duration of each test are listed below.

Report Parameters		
Organism	**ATCC No**	**Initial Concentration**
Escherichia coli	11229	5.52×10^8 cfu/mL

Test Results: The percent reduction in the Result Table below is the organism reduction witnessed between the number of organisms recovered from the control sample and the number of organisms recovered from the UV treated test plaque after the 24-hour incubation period. The percent reduction is shown below.

UV Light	Substrate	Test Duration	Test Distance	Organism % Reduction
Escherichia coli	Stainless Steel	5 minutes	10’	**97.7%**
Escherichia coli	Stainless Steel	10 minutes	10’	**98.1%**
Escherichia coli	Stainless Steel	15 minutes	10’	**98.1%**
Escherichia coli	Stainless Steel	20 minutes	10’	**98.7%**

MICROBIOLOGICAL PERFORMANCE TEST REPORT

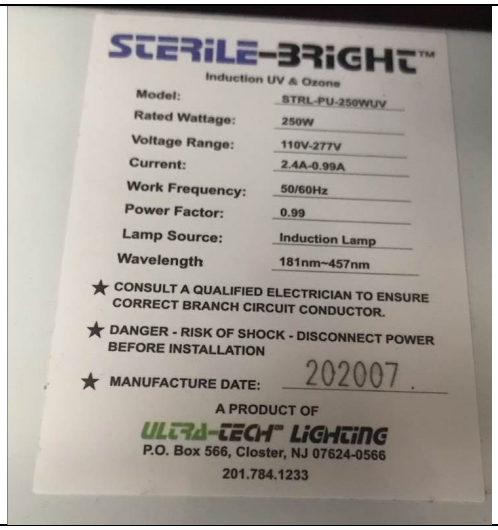	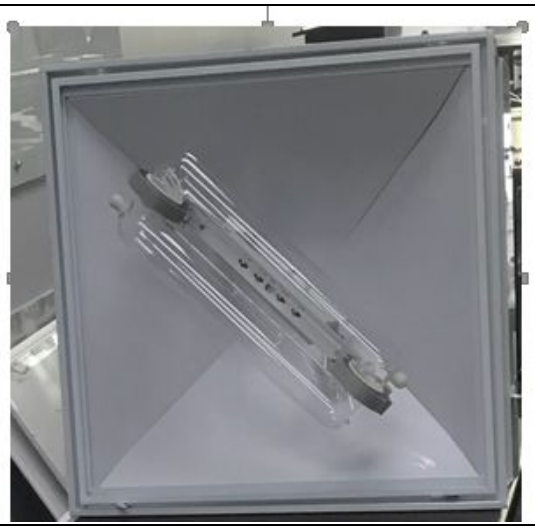
Photo 1: Data Plate	**Photo 2**: Bulb Photo

Test Performed by:

Amanda Mastronicolas
Microbiology technician I
Columbus Office

Report Approved by:

Nicholas Unger
Staff Engineer
Columbus Office