

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 |
| <i>Escherichia coli</i> | 11229 | 5.52x10 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 |
|-------------------------|-----------------|---------------|---------------|----------------------|
| <i>Escherichia coli</i> | Stainless Steel | 5 minutes | 10' | 97.7% |
| <i>Escherichia coli</i> | Stainless Steel | 10 minutes | 10' | 98.1% |
| <i>Escherichia coli</i> | Stainless Steel | 15 minutes | 10' | 98.1% |
| <i>Escherichia coli</i> | Stainless Steel | 20 minutes | 10' | 98.7% |

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MICROBIOLOGICAL PERFORMANCE TEST REPORT



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