

Mr. Roger Dahl  
Cree Lighting, Inc. R234  
9201 Washington Avenue  
Racine, WI 53406-3772

August 4, 2015

**Sample Identification:** Salt Spray Testing of RSW 50W Light Fixtures

**Purchase Order#:** 309444

**Project Number:** P15-1624

**Objective:** We were requested to expose three (3) RSW 50W light fixture to a salt spray environment per the requirements of ASTM B117 for a period of 240 hours while connected to a supplied controller.

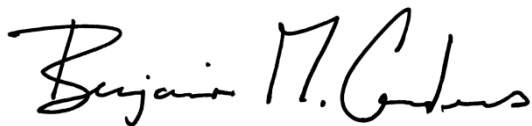
**Observations:** The fixtures were removed from the chamber after 240 hours. Visual examinations of each fixture showed little to no apparent corrosion. Minor corrosion was observed on the screws located near the hinged portion of the fixture.

**Procedures and Data:** The fixtures were connected to each other and then to the supplied controller for exposure under power. The conditions inside the chamber were as follows:

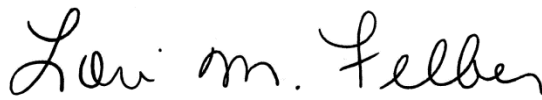
Solution	5% NaCl
Chamber Temperature	95 ± 1°F
Specific Gravity @ 95 °F	1.025 to 1.040
pH of Collected Solution	6.5 to 7.2
Average Collection Rate	1-2 ml/hr./80 cm <sup>2</sup>

Digital images were taken of the fixtures prior to exposure to illustrate the power was connected (See Image #1). No visual differences between the three fixtures were detected. A representative member of the group was imaged upon removal from the exposure (See Image #2).

Anderson Laboratories, Inc.



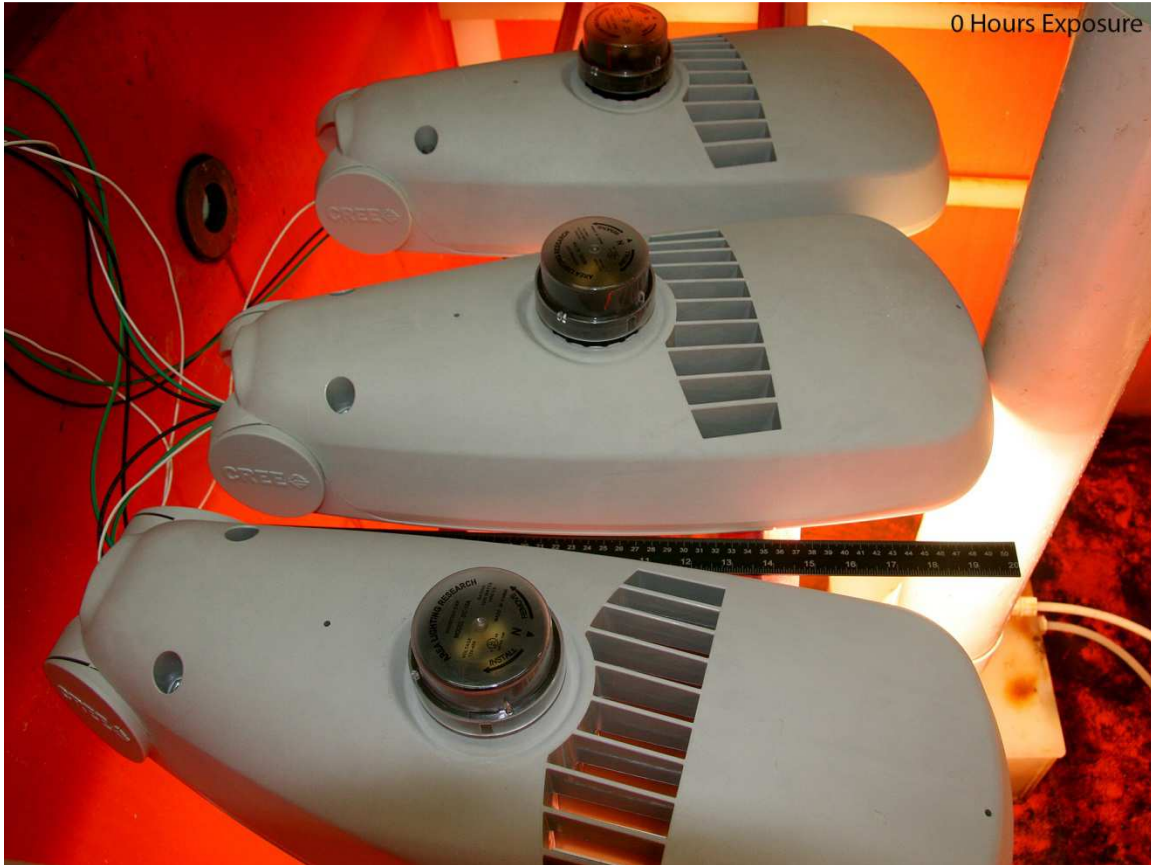
Ben Cardenas  
Laboratory Analyst - Chemical Testing



Lori Felber  
Quality Assurance Manager

The above tests were performed using one or more of the following specifications: ASTM A48, A247, A262, A370, B117, B328, B368, B748, E2 (SM 11-22), E3, E8, E9, E10, E18, E21, E23, E34, E45, E92, E112, E212, E290, E340, E350, E352, E353, E381, E384, E404, E407, E415, E562, E663, E766, E883, E986, E1019, E1024, E1077, E1086, E1251, E1508, G053, G154, ASME IX, AWS D1.1, MIL-S-867A, NAVSEA S9074-AQ-GIB-010/248, SAE J81, EN 10002 Part 1, EN 10045 Parts 1 & 2, EN 10204 Section 3.1.C, and Anderson Laboratories' Quality Manual Revision M dated 2/24/14. This report shall not be reproduced except in full, without the written approval of Anderson Laboratories, Inc. Results reported apply only to the sample submitted.

**Cree Lighting, Inc. R234**  
RSW 50W Light Fixtures  
Hours of Exposure: 0  
Image #1



Magnification: 0.2X

The above image illustrates the RSW 50W light fixtures in a powered state prior to exposure.

**Cree Lighting, Inc. R234**  
RSW 50W Light Fixtures  
Hours of Exposure: 240  
Image #2



Magnification: 0.3X

The above image is representative of all members of the group of three (3) RSW 50W light fixtures that were exposed for the 240 hour period.