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LIGHT FIXTURE  
AIR LEAKAGE RESISTANCE  
TEST REPORT

**NLF2010-242**

REPORT TO: HUBBELL LIGHTING  
PROGRESS DIVISION  
701 MILLENNIUM BLVD.  
GREENVILLE, S.C. 29607

TEST DATE: 04/19/2010  
REPORT DATE: 04/19/2010

PRODUCT: P187-TG REMODEL 6"  
NOMINAL RECESSED LIGHT  
FIXTURE WITH P8593-01  
GASKET KIT.

# **QUALITY TESTING INC.**

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REPORT TO: Hubbell Lighting/Progress Division  
701 Millennium Boulevard  
Greenville, S.C. 29607

TEST DATE: 04/19/2010

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## TEST PROCEDURE:

The air infiltration rate through the fixture was measured in the laboratory on 04/19/2010. The purpose of this work was to determine the air infiltration rate through the fixture at a differential test pressure of 1.57 Pounds Per Square Foot (PSF). The air infiltration rate was measured using inclined manometers and a laminar flow element coupled to a simulated ceiling testing chamber. Testing is conducted in accordance with ASTM E283 "Standard Test Method for Rate of Air Leakage through Exterior Windows, Curtain Walls, and Doors". The fixture is installed in the simulated ceiling, the 1/8" gap between the chamber and the edge of the light fixture opening was left open to include installation leakage. After the fixture is installed and the perimeter is sealed the opening (room side) of the fixture is sealed with plastic sheeting to prevent airflow through the fixture. A positive test pressure of 1.57 PSF is applied to the ceiling side of the fixture and airflow through the test chamber was recorded.

The plastic sheeting was then removed from the fixture and a test pressure of 1.57 PSF was applied a second time and airflow through the fixture and test chamber was recorded. The air infiltration rate through the fixture was determined by subtracting the airflow measured when the fixture was sealed from the number recorded when the fixture was exposed to the test chamber. The measurements and calculations gave the net airflow through the fixture in units of cubic feet per minute (CFM).

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## FIXTURE DESCRIPTION:

Hubbell Lighting/Progress Division P187-TG Remodel 6" nominal stainless steel can. A field connection box was connected to a sheet metal leg. The Power wiring was directed to the lamp housing using flexible conduit running from the junction box through a punched opening in the side of the can. Foam gaskets from the P8593-01 gasket kit were applied to the conduit penetration hole, the two adjustment slots on each side of the can and to the wiring clip mount hole on the side of the can. All gaskets were applied to the outside of the can.

## TEST RESULTS

Measured flow through 6" can = 1.25 CFM

Allowable per Washington State Energy Code is less than 2.00 CFM

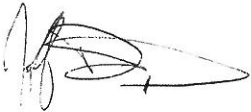
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CONCLUSIONS:

These results apply only to the assembly submitted for testing. The laboratory has no control over the fabrication of production line units. It will be the manufactures responsibility to certify that production units are manufactured the same as the unit tested. It is also the manufactures responsibility to certify that all catalog numbers and or identification numbers are true and accurate.

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