



**RETURN AIR VOLUME
VERSUS STATIC PRESSURE TESTS
ON CORELITE BRIDGE™ RETURN AIR LIGHT FIXTURES**

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TEST METHOD

The fixtures were tested in accordance with the ASHRAE 70-2006 Standard “Method of Testing for Rating the Performance of Air Outlets and Inlets”, which incorporates ADC 1062: GRD-84 Test Code for Grilles, Registers and Diffusers. The unit was installed in the facility and supplied with measured volumes of air.

DESCRIPTION OF TEST SPECIMENS

The test specimens consisted of three models of air returns. The first was Model Bridge LED 2x2 which measured 24 inches long by 24 inches wide. The second Model Bridge LED 2x4 measured 48 inches long by 24 inches wide. The third Model Bridge LED 1x4 measured 48 inches long by 12 inches wide. A row of small openings along the two opposite sides, running the length of each unit, allowed the air to return.

RESULTS OF MEASUREMENTS

Bridge LED 2x2 Light Fixture		Bridge LED 2x4 Light Fixture		Bridge LED 1x4 Light Fixture	
Negative Static Pressure (inches H2O)	Return Air Volume (CFM)	Negative Static Pressure (inches H2O)	Return Air Volume (CFM)	Negative Static Pressure (inches H2O)	Return Air Volume (CFM)
0.05	31	0.01	32	0.01	30
0.10	44	0.05	68	0.05	67
0.15	53	0.10	96	0.10	95
0.20	62	0.20	137	0.20	136
0.30	76	0.30	173	0.30	165

RESULTS OF MEASUREMENTS (CONTINUED)

