



INDEPENDENT TESTING LABORATORIES, INC.

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REPORT NUMBER: ITL89986-THD1
ISSUE DATE: 11/21/17
PREPARED FOR: LED Roadway Lighting Ltd.
CATALOG NUMBER: L0 60M 5 X XXX 8 X XX X XX X X X RN
LED DRIVER: LED Roadway Lighting LRL-PWS0022-LF, driver has multiple leads, only line input and LED output leads connected for this test, client states LED drive current set to 850mA. LRL-SSP0002-LF surge protector. LED driver and surge protector information provided by client.

ADDRESS: 115 Chain Lake Drive
Suite 201
Halifax, Nova Scotia, Canada B3S 1B3

OBJECT OF TEST: Measure Voltage, Current, Wattage, Total Harmonic Distortion (voltage & current), and Power Factor at the luminaire input under stable operating conditions.

TEST PROCEDURE: ANSI C82.77-2002

INSTRUMENTATION: APT 5020 AC Power Source
Yokogawa WT210 Power Meter

Calibration Due
NA
02/17/18

NOTE: Changes in source impedance can affect the input current, Power Factor, and Total Harmonic Distortion to the luminaire. There are currently no industry standards that ITL is aware of which address source impedance issues as they apply to lighting load analysis. However, the Illuminating Engineering Society's Testing Procedures Committee (IES TPC) is currently reviewing the topic. Until an industry standard is published, results are likely to vary between laboratories.

RESULTS: Driver Input Electrical

Operating Frequency :	60Hz	Operating Frequency :	50Hz
Input Voltage (Volts AC):	120.0	Input Voltage (Volts AC):	230.0
Input Current (Amps AC):	1.37	Input Current (Amps AC):	0.705
Input Power (Watts AC):	163.8	Input Power (Watts AC):	160.5
Input Power Factor (%):	99.6	Input Power Factor (%):	99.0
Input Voltage THD (%):	0.3	Input Voltage THD (%):	0.2
Input Current THD (%):	2.8	Input Current THD (%):	4.3

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