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INDEPENDENT TESTING LABORATORIES, INC.

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REPORT NUMBER: ITL87572-THD1
ISSUE DATE: 05/20/16
PREPARED FOR: LED Roadway Lighting Ltd.
CATALOG NUMBER: NXT 12C 5 X 4AH 8 XX 3 XX X XX X 0167
LED DRIVER: LED Roadway Lighting LT45, driver has multiple leads, only line input and LED output leads connected for this test, client states driver programmed for 850mA output. LRLM-WH91/92-OU1 surge protector. 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: Elgar Series CW1251M AC Voltage Reg/Conditioner Calibration Due
Xitron Technologies Model 2503H Power Analyzer NA 12/29/16

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 (60Hz)

Input Voltage (Volts AC): 120.0
Input Current (Amps AC): 0.279
Input Power (Watts AC): 32.9
Input Power Factor (%): 98.3
Input Voltage THD (%): 0.2
Input Current THD (%): 8.2

Driver Input Electrical (50Hz)

Input Voltage (Volts AC): 230.0
Input Current (Amps AC): 0.157
Input Power (Watts AC): 32.6
Input Power Factor (%): 90.3
Input Voltage THD (%): 0.1
Input Current THD (%): 15.5

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