



**itl boulder**  
THE LIGHT CENTER OF THE INDUSTRY SINCE 1955



INDEPENDENT TESTING LABORATORIES, INC.

4066 CAMELOT CIRCLE, LONGMONT, CO 80504 USA

PHONE: (303) 442-1255 • FAX: (970) 535-3114 • E-MAIL: [itl@itlboulder.com](mailto:itl@itlboulder.com) • WEBSITE: [www.itlboulder.com](http://www.itlboulder.com)

REPORT NUMBER: ITL89987  
ISSUE DATE: 11/21/17  
PREPARED FOR: LED Roadway Lighting Ltd.  
CATALOG NUMBER: LH 60M 5 X XXX W X XX X XX X X X P2  
LED DRIVER: LED Roadway Lighting LRL-PWS0014-LF, driver has multiple leads, only line input and LED output leads connected for this test, client states LED drive current set to 300mA. 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):	1.83	Input Current (Amps AC):	0.966
Input Power (Watts AC):	218.4	Input Power (Watts AC):	214.7
Input Power Factor (%):	99.5	Input Power Factor (%):	96.6
Input Voltage THD (%):	0.4	Input Voltage THD (%):	0.2
Input Current THD (%):	6.9	Input Current THD (%):	11.5

THIS ITL REPORT WITH THE USE OF THE NVLAP LOGO SHALL NOT BE USED BY THE CLIENT TO CLAIM PRODUCT CERTIFICATION, APPROVAL, OR ENDORSEMENT BY NVLAP, NIST, OR ANY AGENCY OF THE FEDERAL GOVERNMENT.

Checked: N. White

Approved: C. Stout