



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

QPS EVALUATION SERVICES, INC.
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ELECTRICAL

Valid To: November 30, 2018

Certificate Number: 3351.01

In recognition of the successful completion of the A2LA evaluation process, (including an assessment of the laboratory's compliance with A2LA's ENERGY STAR[®] Accreditation Program requirements¹) accreditation is granted to this laboratory to perform the following tests:

Test Description:

Test Method(s)²:

General Requirements

CAN/CSA C22.2 No. 0;
 CAN/CSA C22.2 No. 0.1;
 CAN/CSA C22.2 No. 0.4;
 CAN/CSA C22.2 No. 0.8
 (excluding Clauses 6.3.4, 6.3.6, 6.4.3, and 6.4.7);
 CAN/CSA C22.2 No. 0.17
 (excluding Clauses 5, 6.3, 6.4, and 7)

Electrical Appliances

Audio, Video Equipment

CAN/CSA E60065; IEC 60065;
 ANSI/UL 60065 (excluding Clauses 14.2 and 18)

Commercial Electric Kitchen Machines

CAN/CSA E60335.2.64; IEC 60335-2-64

Cooking and Liquid Heating

CAN/CSA C22.2 No. 61;
 CAN/CSA C22.2 No. 64;
 CAN/CSA C22.2 No. 109;
 CAN/CSA C22.2 No. 150

Cooking Appliances

CAN/CSA E60335.2.9; IEC 60335-2-9;
 CAN/CSA E60335.2.39; IEC 60335-2-39

Cranes and Hoists

CAN/CSA C22.2 No. 33³; UL 1340³; UL1323³

Electric Grillers and Toasters

CAN/CSA E60335.2.48; IEC 60335-2-48

Hairdressing Equipment

CAN/CSA C22.2 No. 36 (excluding Clause 7.3.5);
 CAN/CSA E60335.2.23; IEC 60335-2-23

Test Description:

Test Method(s) ²:

Electrical Appliances (Cont.)

Heating, Refrigerating, and Air Conditioning

CAN/CSA C22.2 No. 46;
CAN/CSA C22.2 No. 63;
CAN/CSA C22.2 No. 117;
CAN/CSA C22.2 No. 120;
CAN/CSA C22.2 No. 164;
CAN/CSA C22.2 No. 224;
CAN/CSA C22.2 No. 236;
ANSI/UL 250; ANSI/UL 1995

Liquid Heating Appliances

CAN/CSA E60335.2.15; IEC 60335-2-15

Lighting and Fixtures

CAN/CSA C22.2 No. 9;
CAN/CSA C22.2 No. 12;
CAN/CSA C22.2 No. 37;
CAN/CSA C22.2 No. 74;
CAN/CSA C22.2 No. 89;
CAN/CSA C22.2 No. 166;
CAN/CSA C22.2 No. 207;
CAN/CSA C22.2 No. 250.0;
ANSI/UL 1598

Luminaries – General Requirements

CAN/CSA E60598-1/IEC 60598-1 (*excluding Clause 4.18.2 and Annex F*)

Luminaries – Particular Requirements

CAN/CSA-E60598-2-1; IEC 60598-2-1;
CAN/CSA-E60598-2-2; IEC 60598-2-2;
CAN/CSA-E60598-2-3; IEC 60598-2-3;
CAN/CSA-E60598-2-4; IEC 60598-2-4;
CAN/CSA-E60598-2-5; IEC 60598-2-5;
CAN/CSA-E60598-2-6; IEC 60598-2-6;
CAN/CSA-E60598-2-7; IEC 60598-2-7;
CAN/CSA-E60598-2-8; IEC 60598-2-8;
CAN/CSA-E60598-2-9; IEC 60598-2-9;
CAN/CSA-E60598-2-10; IEC 60598-2-10;
CAN/CSA-E60598-2-17; IEC 60598-2-17;
CAN/CSA-E60598-2-18; IEC 60598-2-18;
CAN/CSA-E60598-2-19; IEC 60598-2-19

Massage Appliances

CAN/CSA-E60335.2.32; IEC 60335-2-32

Miscellaneous Electrical Appliances

CAN/CSA C22.2 No. 81;
CAN/CSA C22.2 No. 92;
CAN/CSA C22.2 No. 99;
CAN/CSA C22.2 No. 102;
CAN/CSA C22.2 No. 104;
CAN/CSA C22.2 No. 112;
CAN/CSA C22.2 No. 122;
CAN/CSA C22.2 No. 149;
CAN/CSA C22.2 No. 218.1;
CAN/CSA C22.2 No. 218.2;
CAN/CSA C22.2 No. 205;
UL 268; ULC-S529;
ANSI/UL 2158;



Test Description:

Test Method(s) ²:

Electrical Appliances (Cont.)

Miscellaneous Electrical Appliances (Cont.)

ULC S525/UL464; ULC S526/UL 1638;
ULC S527 (excluding Sections 10.15, 10.16, 10.31, 10.32);
ULC S541 (excluding EMC and Corrosion tests)

Motor Operated Electrical Appliances

CAN/CSA C22.2 No. 6;
CAN/CSA C22.2 No. 10;
CAN/CSA C22.2 No. 68;
CAN/CSA C22.2 No. 71.1;
CAN/CSA C22.2 No. 71.2;
CAN/CSA C22.2 No. 73;
CAN/CSA C22.2 No. 113;
CAN/CSA C22.2 No. 147;
CAN/CSA C22.2 No. 195;
CAN/CSA C22.2 No. 243;
ANSI/UL 1017

Portable Appliances

CAN/CSA C22.2 No. 60335.1; ANSI/UL 60335-1

Portable Electric Tools
General Requirements

CAN/CSA C22.2 No. 60745-1; IEC 60745-1;
ANSI/UL 60745-1; CAN/CSA 745-4-36; UL 745-4-36

Portable Heating Tools

CAN/CSA-E60335.2.42; IEC 60335-2-42

Sewing Machines

CAN/CSA-E60335.2.28; IEC 60335-2-28

Vacuum Cleaners and
Water Suction Cleaning

CAN/CSA-E60335.2.2; IEC 60335-2-2;
CAN/CSA-E60335-2-67; CAN/CSA-E60335-2-68;
CAN/CSA-E60335-2-69

Washing Equipment

CAN/CSA C22.2 No. 53;
CAN/CSA C22.2 No. 167;
CAN/CSA C22.2 No. 168;
CAN/CSA C22.2 No. 169;
ANSI/UL 749; ANSI/UL 2157; ANSI/UL 2158

Equipment - Miscellaneous

Equipment Components and Assemblies

CAN/CSA C22.2 No. 88; CAN/CSA C22.2 No. 94.1;
CAN/CSA C22.2 No. 94.2; CAN/CSA C22.2 No. 100;
CAN/CSA C22.2 No. 103; CAN/CSA C22.2 No. 108;
CAN/CSA C22.2 No. 126; CAN/CSA C22.2 No. 128;
CAN/CSA C22.2 No. 139; CAN/CSA C22.2 No. 141;
CAN/CSA C22.2 No. 160; CAN/CSA C22.2 No. 180;
CAN/CSA C22.2 No. 187; CAN/CSA C22.2 No. 189;
CAN/CSA C22.2 No. 191; CAN/CSA C22.2 No. 203;
CAN/CSA C22.2 No. 206; CAN/CSA C22.2 No. 221;
CAN/CSA C22.2 No. 247;
ANSI/UL 50; ANSI/UL 50E; CAN/CSA 273

Hazardous Location Equipment

CAN/CSA C22.2 No. 25 (excluding Clause 5.2.1, note b);
CAN/CSA C22.2 No. 30 (excluding Clause 6.10.2a)
(temperature above -26 °C, less than 208 V-AC,
less than 10,000 psi);



Test Description:

Test Method(s) ²:

Equipment – Miscellaneous (Cont.)

Hazardous Location Equipment (Cont.)

CAN/CSA C22.2 No. 145 (*excluding Clause 10.2.2.1*)
(*less than 208 V-AC, less than 30 A*);
CAN/CSA C22.2 No. 157; CAN/CSA C22.2 No. 159;
CAN/CSA C22.2 No. 174; CAN/CSA C22.2 No. 213;
CAN/CSA E60079-0; C22.2 No. 60079-0; IEC 60079-0;
ANSI/UL 60079-0 (*excluding Clause 23.4.7.5*);
CAN/CSA E60079-1; C22.2 No. 60079-1; IEC 60079-1;
ANSI/UL 60079-1 (*less than 10,000 psi*);
CAN/CSA E60079-5; C22.2 No. 60079-05; IEC 60079-5;
ANSI/UL 60079-5; CAN/CSA E60079-6;
C22.2 No. 60079-6; IEC 60079-6; ANSI/UL 60079-6;
CAN/CSA E60079-7; C22.2 No. 60079-7; IEC 60079-7;
ANSI/UL 60079-7 (*excluding Clauses 6.3.4 and 6.6.3*);
CAN/CSA - E60079-11; C22.2 No. 60079-11;
IEC 60079-11; ANSI/UL 60079-11;
CAN/CSA - E60079-14; IEC 60079-14;
ANSI/UL 60079-14; CAN/CSA - E60079-15;
C22.2 No. 60079-15; IEC 60079-15;
ANSI/UL 60079-15 (*excluding Clause 26.15*);
CAN/CSA - E60079-18; C22.2 No. 60079-18;
IEC 60079-18; ANSI/UL 60079-18;
C22.2 No. 60079-29-1;
IEC 60079-29-1; ISA 60079-29-1;
CAN/CSA C22.2 No. 61241-4;
ANSI/UL 61241-1-1; FM 3610; ANSI/UL 913;
NFPA 496; ANSI/UL 698; UL 698A; ANSI/UL 1203;
ANSI/UL 1604; AS/NZS 60079-29-1; AS/NZS 4641

Industrial Control Equipment

CAN/CSA C22.2 No. 3;
CAN/CSA C22.2 No. 14
(*excluding Clauses 6.10, 6.11, 6.12, 6.13, and 6.14*);
CSA B44.1-14/ASME A17.5; ASME A17.7 / CSA B44.7;
CAN/CSA C22.2 No. 31
(*excluding Clauses 7.5, 8.5.3, and 8.5.4*);
CAN/CSA C22.2 No. 41; CAN/CSA C22.2 No. 47;
CAN/CSA C22.2 No. 66;
CAN/CSA C22.2 No. 178.1
(*excluding Clauses 6.9, 6.11.7.5, 9.13, and 9.15*);
ANSI/UL 1740

Photovoltaics

CAN/CSA C61215 (*excluding Clause 10.17*);
ULC/ORD C1703
(*excluding Clauses 5.14.2, 5.14.3, 5.19, and 5.19.2*)

Wind Turbines

CAN/CSA C61400-1 (*excluding Clauses 6.4.2.3, 6.4.2.4,*
7.3.1, 7.3.2, 7.3.3, 9.4, 9.8, and 11.5)³;
CAN/CSA C61400-2 (*excluding Clauses 6.4.3.4, 6.4.3.5,*
7.3.2, 7.3.3, 7.6, 9.5.2, 9.5.3, 9.5.4, 9.5.6, and 11.5)³;
CAN/CSA C61400-11³; CAN/CSA C61400-12-1³;
CAN/CSA C61400-24³

Welding

CAN/CSA C22.2 No. 60



Test Description:

Test Method(s) ²:

Information Processing and Business Equipment

Battery Chargers

CAN/CSA-60335.2.29; IEC 60335-2-29

Computers/Data Processing and
Office Machines

CAN/CSA C22.2 No. 60950-1; IEC 60950-1;
ANSI/UL 60950-1

Power Supplies

CAN/CSA C22.2 No. 107.1; CAN/CSA C22.2 No. 107.2;
CAN/CSA C22.2 No. 107.3; CAN/CSA C22.2 No. 223;
ANSI/UL 1778; ANSI/UL 1741;
IEEE 1547; IEEE 1547.1 (*excluding EMI*)

Medical Devices

Diagnostic/Treatment Equipment

CAN/CSA C22.2 No. 114; CAN/CSA C22.2 No. 125;
CAN/CSA C22.2 No. 601.1; IEC 60601-1 ⁴;
ANSI/UL 60601-1 ⁴
(*excluding Clauses 36, 37, 40, 41, and 44.7*);
CAN/CSA C22.2 No. 60601-1 ⁴; AAMI ES60601-1 ⁴;
CAN/CSA C22.2 No. 60601-1-1; IEC 60601-1-1;
CAN/CSA C22.2 No. 60601-1-3; IEC 60601-1-3;
CAN/CSA C22.2 No. 60601-1-4; IEC 60601-1-4;
CAN/CSA C22.2 No. 60601-1-8; IEC 60601-1-8;
CAN/CSA C22.2 No. 60601-1-11; IEC 60601-1-11;
CAN/CSA C22.2 No. 60601-2-2; IEC 60601-2-2;
CAN/CSA C22.2 No. 60601-2-4; IEC 60601-2-4;
CAN/CSA C22.2 No. 60601-2-5; IEC 60601-2-5;
CAN/CSA C22.2 No. 60601-2-7; IEC 60601-2-7;
CAN/CSA C22.2 No. 60601-2-10; IEC 60601-2-10;
CAN/CSA C22.2 No. 60601-2-18; IEC 60601-2-18;
CAN/CSA C22.2 No. 60601-2-23; IEC 60601-2-23;
CAN/CSA C22.2 No. 60601-2-25; IEC 60601-2-25;
CAN/CSA C22.2 No. 60601-2-26; IEC 60601-2-26;
CAN/CSA C22.2 No. 60601-2-27; IEC 60601-2-27;
CAN/CSA C22.2 No. 60601-2-30; IEC 60601-2-30;
CAN/CSA C22.2 No. 60601-2-32; IEC 60601-2-32;
CAN/CSA C22.2 No. 60601-2-33 ³; IEC 60601-2-33 ³;
CAN/CSA C22.2 No. 60601-2-34; IEC 60601-2-34;
CAN/CSA C22.2 No. 60601-2-36; IEC 60601-2-36;
CAN/CSA C22.2 No. 60601-2-40; IEC 60601-2-40;
CAN/CSA C22.2 No. 60601-2-44; IEC 60601-2-44;
CAN/CSA C22.2 No. 60601-2-46; IEC 60601-2-46;
ANSI/UL 187

Motors, Generators, and Machines

CAN/CSA C22.2 No. 77

Scientific Instruments

Laboratory Equipment

CAN/CSA C22.2 No. 61010-1 ⁴;
IEC 61010-1 ⁴; ANSI/UL 61010-1 ⁴;
CAN/CSA C22.2 No. 61010-2-010;
IEC 61010-2-010; ANSI/UL 61010-2-010;
CAN/CSA C22.2 No. 61010-2-020;
IEC 61010-2-020; ANSI/UL 61010-2-020;
CAN/CSA C22.2 No. 61010-2-031;



Test Description:

Scientific Instruments (Cont.)
Laboratory Equipment (*Cont.*)

Test Method(s) ²:

IEC 61010-2-031; ANSI/UL 61010-2-031;
CAN/CSA C22.2 No. 61010-2-032;
IEC 61010-2-032; ANSI/UL 61010-2-032;
CAN/CSA C22.2 No. 61010-2-041;
IEC 61010-2-041; ANSI/UL 61010-2-041;
CAN/CSA C22.2 No. 61010-2-042;
IEC 61010-2-042; ANSI/UL 61010-2-042;
CAN/CSA C22.2 No. 61010-2-045; IEC 61010-2-045;
CAN/CSA C22.2 No. 61010-2-051;
IEC 61010-051; ANSI/UL 61010-2-051;
CAN/CSA C22.2 No. 61010-2-061;
IEC 61010-2-061; UL 61010-2-061;
CAN/CSA C22.2 No. 151; UL/CSA/IEC 61010-2-81

Product Safety

ANSI/UL 48; ANSI/UL 67; ANSI/UL 73; ANSI/UL 122;
ANSI/UL 141; ANSI/UL 153; ANSI/UL 197;
ANSI/UL 325; ANSI/UL 347; ANSI/UL 467;
ANSI/UL 469; ANSI/UL 471; NSF/ANSI 7;
ANSI/UL 474; ANSI/UL 482; ANSI/UL 484;
ANSI/UL 499; ANSI/UL 507; ANSI/UL 508;
ANSI/UL 508A; ANSI/UL 508C; ANSI/UL 541;
ANSI/UL 544; ANSI/UL 561; ANSI/UL 588;
ANSI/UL 674; ANSI/UL 676; ANSI/UL 696;
ANSI/UL 751; ANSI/UL 781; ANSI/UL 783;
ANSI/UL 813; ANSI/UL 826; ANSI/UL 844;
ANSI/UL 845; ANSI/UL 858; ANSI/UL 859;
ANSI/UL 875; ANSI/UL 879A; ANSI/UL 935;
ANSI/UL 987; ANSI/UL 998; ANSI/UL 1004;
ANSI/UL 1004B; ANSI/UL 1012; ANSI/UL 1018;
ANSI/UL 1026; ANSI/UL 1026; ANSI/UL 1029;
ANSI/UL 1042; ANSI/UL 1082; ANSI/UL 1083;
ANSI/UL 1419; ANSI/UL 1431; ANSI/UL 1436;
ANSI/UL 1492; ANSI/UL 1563; ANSI/UL 1573;
ANSI/UL 1573; ANSI/UL 1574; ANSI/UL 1640;
ANSI/UL 1642; ANSI/UL 1647; ANSI/UL 1680;
ANSI/UL 1703 (*excluding Clauses 24, 30, 31, and 37*);
ANSI/UL 1727; ANSI/UL 2062;
ANSI/UL 2108; ANSI/UL 2111;
ANSI/UL 60335-1; ANSI/UL 60950-1;
ANSI/UL 61010A-2-043; ANSI/UL 61010B-1;
ANSI/UL 61010B-2-031; ANSI/UL 61010B-2-032;
ANSI/UL 61010C-1; CAN/CSA C22.2 No. 152;
ANSI-ISA-92.00.01; CAN/CSA B149.3

Energy Efficient Verification

ANSI/ARI 1200; ANSI/ASHRAE Std. 117;
CAN/CSA C300; CAN/CSA C358; CAN/CSA C360;
CAN/CSA C361; CAN/CSA C373; CAN/CSA C390;
CAN/CSA C654; CAN/CSA C802.2; CAN/CSA C819;
CAN/CSA C861; CAN/CSA C862;
Vehicle Traffic Control Signal Heads,
Part 2 LED Signal Module

Test Description:

Test Method(s) ²:

EPA ENERGY STAR[®] Testing ¹

Appliances

Residential Refrigerators and Freezers

ENERGY STAR[®] Program Requirements for Residential Refrigerators and Freezers Version 5.0;
10 CFR 430, Subpart B, Appendix A;
10 CFR 430, Subpart B, Appendix B

Commercial Food Service

Commercial Refrigerators

ENERGY STAR[®] Program Requirements for Commercial Refrigerators and Freezers Version 3.0;
ANSI/ASHRAE Standard 72-2005, “Method of Testing Commercial Refrigerators and Freezers”

Lighting and Fans

Decorative Light Strings

ENERGY STAR[®] Test Method for Decorative Light Strings Version 1.5 (Annex A);
ASTM G154-06;
CIE 084-1989

Lamps

Compact Fluorescent Lamps (CFLs) only
(RF Emissions Testing Excluded)

ENERGY STAR[®] Program Requirements for Lamps Version 2.0;
ANSI C78.5 (1997);
CIE Pub. 13.3 (1995);
IESNA LM-9-1999;
IESNA LM-40-2001;
IESNA LM-65-2001;
IESNA LM-66-2000;
ANSI C62.41.2-2002;
CIE Pub. 15 (2004);
CIE Pub. 13.3 (1995);
ENERGY STAR Elevated Temperature Life Test;
ENERGY STAR Elevated Temperature Light Output Ratio;
ENERGY STAR Start Time Test;
ENERGY STAR Run Up Time Test

Light Fixtures (Luminaires) (Non-directional Lamps) *(excluding EMI)*

ENERGY STAR[®] Program Requirements for Luminaires Version 2.0;
ANSI C78.377-2008;
ANSI C82.77-2002;
ANSI C78.5-2003;
CIE Pub. 13.3 (1995);
IESNA LM-65-01 (Clauses 2, 3, 5, and 6);
IESNA LM-79-08;
IESNA LM-82-12;
CIE Pub. 15 (2004);
CIE Pub. 13.3 (1995);
ENERGY STAR Start Time Test Method;
IEC 62301, Ed. 2

Lighting Product Testing



Test Description:

Test Method(s) ²:

(non-EPA Testing)

Incandescent Reflector Lamps

ANSI C78.5; ANSI C82.1; ANSI C82.2;
CIE Pub. 13.3;
IESNA LM-9-1999;
IESNA LM-16-2011;
IESNA LM-40-2001;
IESNA LM-58-1994;
IESNA LM-65-2010;
IESNA LM-66-2011

¹A2LA provides accreditation to the U.S. EPA's [Conditions and Criteria for Recognition of Laboratories for the ENERGY STAR Program](#) by verifying an organization's compliance to A2LA document [R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program](#) and to the related test methods listed above

Accreditation by A2LA does not infer Recognition by the EPA for ENERGY STAR testing. Please verify this organization's recognition status at the EPA's website, located at http://www.energystar.gov/index.cfm?fuseaction=recognized_bodies_list.show_RCB_search_form

²When the date is not identified in the scope of accreditation; laboratories are expected to be competent in the use of the current version within one year of the date of publication or VCCI mandatory compliance dates of the standard test method. For regulatory or recognition body requirements issued by a regulatory body or recognition body (e.g. Industry Canada for RSS standards) the mandatory implementation date must be adopted.

³This laboratory meets A2LA R104 – *General Requirements: Accreditation of Field Testing and Field Calibration Laboratories* for these tests.

⁴The laboratory is only accredited for testing activities outlined within the test methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

On the following products and materials:

Information Technology, Audio/Video Devices, Medical Devices/Equipment, Scientific/Laboratory Instruments, Household/Commercial Electrical Appliances, Power Supplies, Lighting, Industrial Electrical Equipment/Controls, Motor-Operated Devices, Energy Efficiency, Hazardous Locations Equipment, Green Energy, Miscellaneous Electrical Equipment



Accredited Laboratory

A2LA has accredited

QPS EVALUATION SERVICES, INC.

Toronto, Ontario, Canada

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the A2LA R222 - Specific Requirements - EPA ENERGY STAR Accreditation Program. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009*).



Presented this 19th day of January 2017.

A handwritten signature in black ink, written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 3351.01
Valid to November 30, 2018

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.