As an accredited laboratory, this laboratory is entitled to use the following accreditation symbol.

Valid from 28 October 2015
to 14 August 2017
Issued on 26 November 2015

ISO/ IEC 17025
TL 053-01

Schedule of Accreditation

Accreditation Scheme for Testing Laboratories
Sri Lanka Accreditation Board for Conformity Assessment

Accreditation Number: TL 053-01

AUT Lamp Testing Laboratory
Advance Universal Technology Limited, No.157, Gushan Road, Gushan Industrial Park, Qiandao Lake Town, Hangzhou, Zhejiang, P R China

Scope of Accreditation: Performing Electrical Testing & Mechanical Testing on Self Ballasted lamps/ Intregral type compact fluorescent lamp, Performance test on LED lamps and Safety test on CFL and LED lamps.

The laboratory is accredited for the following tests.

Sl	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
Mechanical Testing					
01	Self Ballasted Lamps/ Integral Type Compact Fluorescent and LED Lamps	**Dimensions** Lamp Length	SLS 1231: Part I : 2002 IEC 60969 , Ed. 1.2 : 2001-03 SLS 1458 Part 2:2014 IEC 62612:2013 AS/NZS 60969:2001	0 - 300 mm	0.08 mm
		Tube diameter			0.03 mm
		Overall lamp length			0.2 mm
		Overall lamp diameter			0.06 mm

Sl	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
Mechanical Testing					
02	Self Ballasted LED Lamps for general lighting services with Voltage > 50V **performance requirement**	**Dimensions** Lamp Length	SLS 1458 Part 2:2014 IEC 62612:2013 IEC/PAS 62612:2014	0 - 300 mm	0.08 mm
		Lamp diameter	SLS 1458 Part 2:2014 IEC 62612:2013	0 - 300 mm	0.03 mm
Electrical & Photometric Testing					
03	Self-Ballasted Lamps / Integral Type Compact Fluorescent and LED Lamps	Starting time	SLS 1231: Part I : 2002 IEC 60969 , Ed. 1.2 : 2001-03 AS/NZS 60969:2001	0.1 – 100 S	0.2 S
		Lamp Wattage	SLS 1231: Part I : 2002 SLS 1225: 2002 IEC 60969 , Ed. 1.2 : 2001-03 AS/NZS 60969:2001	1 – 88 Watt	0.1 W
		Total Luminous Flux		100 – 10,000 lm	9.6 lm
		Colour Temperature	SLS 1231: Part I : 2002 IEC 60969 , Ed. 1.2 : 2001-03 AS/NZS 60969:2001	1,000 – 10,000 K	19 K
		Chromaticity Coordinates		CIE 1931 xy Chromaticity space	0.002
		Colour rendering index		0 - 100	0.6
		SDCM (Standard Deviation for Colour Matching)		As computed by above parameters	0.2
04	Self Ballasted Lamps / Integral Type Compact Fluorescent Lamps	Run up time	SLS 1231: Part I : 2002 IEC 60969 , Ed. 1.2 : 2001-03 AS/NZS 60969:2001	0.1 – 100 S	1 S
		Lumen Maintenance	SLS 1231: Part I : 2002 SLS 1225: 2002 IEC 60969 , Ed. 1.2 : 2001-03 AS/NZS 60969:2001	100 – 10,000 lm	9.6 lm
		Total Harmonics Distortion (THD) (1st - 50th)	SLS 1231: Part I : 2002		0.4 %
		Power Factor	SLS 1231: Part I : 2002 SLS 1225: 2002	-1 - +1	0.001
		Lamp voltage	SLS 1231: Part I : 2002 SLS 1225: 2002	0 – 300 V	0.24 V

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Electrical & Photometric Testing					
05	Self -ballasted compact Fluorescent Lamps for general lighting services **safety requirement**	Interchangeability	SLS 1231: Part 2 : 2015 IEC 60968 :2015 AS/NZS 60968 :2015	NA	-
		Bending Moment		NA	-
		Abnormal Operation		NA	-
		Protection of electric shock		NA	-
		Insulation resistance and electric strength		NA	-
		Mechanical strength – Torsion resistance test		NA	-
		Axial strength of Edition caps		NA	-
		Cap temperature rise		NA	-
		Resistance to heat		NA	-
		Resistance to flame and ignition		NA	-
06	Self Ballasted LED Lamps for general lighting services with Voltage > 50V **performance requirement**	Luminous Intensity distribution	SLS 1458 Part 2:2014 IEC 62612:2013 IEC/PAS 62612:2014	1cd to 10,000,000 cd	1.6 cd
		Lamp Wattage		1- 88 Watt	0.1 W
		Total Luminous Flux		100 – 10,000 lm	9.6 lm
		Colour Temperature		1000 – 10,000 K	19 K
		Chromaticity Coordinates		CIE 1931 x y Chromaticity space	0.002
		Colour rendering index		0-100	0.6
		SDCM (Standard Deviation for Colour Matching)		As computed by above parameters	0.2
		Peak Intensity value		1 cd to 10,000,000 cd	1.9 cd
		Beam angle value		0^0 - 360^0	2.2^0
		Displacement factor		-1 to +1	0.0001
		Temperature cycling energized		NA	-
		Supply voltage switching			-
		Accelerated operational life			-

Sl	Product(s) / Material of test	Specific tests performed	Test Method / Standard against which tests are performed	Range of testing/ Limits of detection	Uncertainty (±)
Electrical & Photometric Testing					
07	Self Ballasted LED Lamps for general lighting services with Voltage > 50V **Safety requirement**	Cap Temperature rise	SLS 1458 Part 1:2013 IEC 62560:2011 AS/NZS 62560:2011	NA	-
		Resistance to heat			
		Resistance to flame and ignition			
		Extreme electric condition- non dimmable lamps			
		Interchangeability			
		Bending Moment, axial pull and mass			
		Protection against accidental contact with lives part	SLS 1458 Part 1:2013 IEC 62560:2011 AS/NZS 62560:2011 AS/NZS 60968:2015		
		Insulation resistance and electric strength after humidity treatment	SLS 1458 Part 1:2013 IEC 62560:2011 AS/NZS 62560:2011		
		Mechanical Strength- Torsion resistance test			

Director /CEO
Sri Lanka Accreditation Board for Conformity Assessment