

Laboratory Philips Lighting Laboratory, Philips Electronics India Ltd., C-47, Sector-57, Noida, Uttar Pradesh

Accreditation Standard ISO/IEC 17025: 2005

Discipline Electronics Testing **Issue Date** 17.12.2013

Certificate Number T-2741 **Valid Until** 16.12.2015

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S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. EMC/ EMI TESTING				
1.	Lamps Luminaires and its accessories	Conducted Disturbances	CISPR 15 Ed 8.0 (2013-05) (Cl.8.1.1), CISPR 15 Ed 7.2 (2009-01)(Cl.8.1.1) EN 55015:2006+A1:2007+A2:2009 IS 6873 (Part 5) Rev 2: 2012	Upto 150 dB μ V Frequency 9 kHz to 30 MHz
		Radiated Disturbances	CISPR 15 Ed 8.0 (2013-05) (Cl.9) CISPR 15 Ed 7.2 (2009-01) (Cl.9) EN 55015:2006+A1:2007+A2:2009 IS 6873 (Part 5) Rev 2: 2012	Upto100 dB μ A Frequency 9KHz to 30 MHz
		Independent method of measurement of radiated disturbances (Bersier)	CISPR 15 Ed 8.0 (2013-05) Annex B, CISPR 15 Ed 7.2 (2009-01) Annex B; EN 55015:2006+A1:2007+A2:2009 Annex B ; IS 6873 (Part 5) Rev 2 (2012)	Upto 100 dB μ V Frequency 30 kHz to 300 MHz
		Electrostatic Discharge Immunity Test	IEC 61547 Ed 2.0 (2009-06); IEC 61000-4-2 Ed 2 (2008); EN 61547 (2009); EN 61000-4-2 (2009) IS 14700 (Part 4) : Sec 2 Rev 1 (2001)	Air Discharge 8 kV to 8 kV Contact Discharge (-)/4 kV to +4 kV

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	Lamps, Luminaires and its accessories	Electrical Fast Transient/Burst Immunity Test	IEC 61547 Ed 2.0 (2009-06) IEC 61000-4-4 Ed 2.0 (2012-04) EN 61547 (2009) EN 61000-4-4 (2004) IS 14700 (Part 4/ Sec 4/Rev 1): 2008	Amplitude '200V to 5500V & (-)200V to (-)5500V; Pulse 5/50ns; Burst Duration 15ms; Burst Period 300 ms. Repetition Rate 5 KHz; 1 phase upto 6.5A rms
		Surge Immunity Test	IEC 61547 Ed 2.0 (2009-06) EN 61547 (2009) IEC 61000-4-5 Ed 2 (2005) EN 61000-4-5 (2006) IS 14700 (Part 4) : Sec 5 (2012)	+250V to +6500 V & (-)250 V to (-)6500 V Surge Volt Pulse 1.2µs, Surge Current 8/20µs; 1 phase upto 6.5A rms
		Immunity to conducted disturbances, induced by Radio frequency Fields	IEC 61547 Ed 2.0 (2009-06) EN 61547 (2009) IEC 61000-4-6 Ed 3 (2008) EN 61000-4-6 (2014)	150KHz to 230 MHz, Test Level 3V rms, Modulation 1KHZ, 1 phase upto 6.5A rms
		Power frequency Magnetic Field Immunity Test	IEC 61547 Ed 2.0 (2009-06), IEC 61000-4-8 Ed 2 (2009); EN 61547 (2009), EN 61000-4-8 (2010) IS 14700 (Part 4): Sec 8 Rev 1 (2001)	EUT size 1 x 1 x 2.6 m; 3A/m Level Continuous

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	Lamps, Luminaires and its accessories	Voltage Dips, short interruptions and voltage variations immunity test	IEC 61547 Ed 2.0 (2009-06), IEC 61000-4-11 Ed 2 (2004) EN 61547 (2009) EN 61000-4-11 (2004) IS 14700 (Part 4) :Sec 11 (2008)	Dips - 70 % and Interrupts : 0 %;1 phase Upto 6.5A rms
		Limits for Harmonic Current Emissions(Equipment Input Current < 16A per phase)	IEC 61000-3-2 Ed 3.2 (2009-04) IEC 61000-3-2 Ed 4.0 (2014-05) EN 61000-3-2 (2006)+A1 (2009)+ A2 (2009) IS 14700 (Part 3): Sec2 Rev 1 (2008)	Upto 39th order (at 50 Hz) 1 phase Upto 16 A rms
		Limitations for Voltage Fluctuations and Flicker in low voltage supply systems for Equipment's with rated current< 16 A per phase and not subject to conditional connection	IEC 61000-3-3 Ed 2 (2008-06) IEC 61000-3-3 Ed 3 (2013-05) EN 61000-3-3 (2013) IS 14700 (Part 3/ Sec 2/ Rev 1): 2008	1 phase Upto 16 A rms

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