



National Accreditation Board for Testing and Calibration Laboratories

(A Constituent Board of Quality Council of India)



SCOPE OF ACCREDITATION

Laboratory Hi Physix Laboratory, K-12, Sector-2, DSIIDC, Industrial Area, Bawana, Delhi

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5639 (in lieu of T-1488, T-3058 & T-3808) Page 52 of 55

Validity 08.05.2017 to 20.07.2018 Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
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PHOTOMETRY TESTING

I. LIGHT SOURCES (ELECTRIC LAMP)				
1.	Fixed General Purpose Luminaires, Recessed Luminaires, Luminaires for Road & Street Lighting, Portable General Purpose Luminaires, Hand Lamps, Lighting Chains, Emergency Lighting	Photometry Test	IS 10322 (Part 5/Sec I): 2012 (Clause. 17) IS 10322 (Part 5/Sec II): 2012 (Clause. 17) IS 10322 (Part 5/Sec III): 2012 (Clause. 17) IS 10322 (Part 5/Sec IV): 1987 (Clause. 13.8) IS 10322 (Part 5/Sec VI): 2013 (Clause. 17) IS 10322 (Part 5/Sec VII): 2013, (Clause. 17) IS 10322 (Part 5/Sec VIII): 2013 (Clause. 17)	0.1 lm to 99999 lm 1 cd to 10000 cd 2.8 % to 1 00000lx
2.	LED Modules For General Lighting	Performance Requirements Luminous Flux	IS 16103 (Part 2):2012 (Clause 8.1) /IEC 62717: 2011	1 lm to 99999 lm
		Luminous Intensity Distribution, Peak Intensity and Beam Angle	IS 16103 (Part 2):2012 (Clause 8.2) /IEC 62717: 2011	1 cd to 1000 cd
		Efficacy	IS 16103 (Part 2):2012 (Clause 8.3) /IEC 62717: 2011	(1 lm to 100 lm)/W

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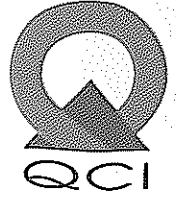
N. Venkateswaran

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		Chromaticity Coordinates	IS 16103 (Part 2):2012 (Clause 9.1) / IEC 62717: 2011	1500 K to 25000 K
		Performance Requirements Correlated Colour Temperature	IS 16103 (Part 2):2012 (Clause 9.2) / IEC 62717: 2011	1500 K to 25000 K
		Colour Rendering Index	IS 16103 (Part 2):2012 (Clause 9.3) / IEC 62717: 2011	Upto 100 %
		Led Module Life - Lumen Maintenance - Endurance	IS 16103 (Part 2): 2012 (Clause. 10, 10.2 & 10.3) / IEC 62717: 2011	1 lm to 99999 lm
3.	LED Luminaires	Luminous Flux	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 8.1 IEC 62722-2-1: 2011	1 lm to 99999 lm
		Luminous Intensity Distribution , Peak Intensity And Beam Angle	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 8.2 IEC 62722-2-1: 2011	1 cd to 1000 cd
		Luminaire Efficacy	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 8.3 IEC 62722-2-1: 2011	(1 lm to 100 lm)/W
		Chromaticity Coordinates	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 9.1 IEC 62722-2-1: 2011	1500 K to 25000 K
		Correlated Colour Temperature	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 9.2 IEC 62722-2-1: 2011	1500 K to 25000 K

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		Colour Rendering Index	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ Clause. 9.3 IEC 62722-2-1: 2011	Upto 100 %
		Led Luminaire Life - Lumen Maintenance - Endurance Test	IS 16107-1: 2012/ IEC 62722-1: 2011 IS 16107 (Part 2/Sec I): 2012/ (Clause. 10) IEC 62722-2-1: 2011	0.1 lm to 99999 lm
4.	Self-Ballasted LED Lamps For General Lighting Services	Luminous Flux	IS 16102 (Part 2): 2012 (Clause 9) / IEC 62612: 2013, IS 16106: 2012 (Clause. 9)/ IES LM 79	0.1 lm to 99999 lm
		Centre Beam Intensity & Beam Angle	IS 16102 (Part2):2012 (Cl. 10 &11) IEC 62612: 2013, IS 16106: 2012 (Clause. 10 &11) /IES LM 79	10 mcd to 200 cd
		Color Nomenclature, Variation And Rendering	IS 16102 (Part 2): 2012 (Clause 12) IEC 62612: 2013	2000 k to 25000 k (x=0.527 to 0.253, y=0.413 to 0.252)
		Cri	IS 16102 (Part2):2012(Claue 12.2) IEC 62612: 2013	1 % to 100 %
		Lamp Life - Lumen Maintenance - Endurance Test	IS 16102 (Part 2): 2012 (Clause 13) IEC 62612: 2013, IS 16105: 2012 (Clause. 13) /IES LM 80	1 h to 999999 h
5.	Self Ballasted Lamps For General Lighting Services	Performance Requirements Luminous Flux	IS 15111 (Part 2):2002 (Clause 10), IEC 60969: 2001	0.1 lm to 99999 lm
		Colour	IS 15111 (Part 2):2002 (Clause 11), IEC 60969: 2001	2000 k to 25000 k (x=0.527 to 0.253, y=0.413 to 0.252)

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		Lumen Maintenance	IS 15111 (Part 2):2002 (Clause 12), IEC 60969: 2001	0.1 lm to 99999 lm
		Life	IS 15111 (Part 2):2002 (Clause 13), IEC 60969: 2001	1 hour to 9999 hour
		Lamp Efficacy	IS 15111 (Part 2):2002 (Clause 15), IEC 60969: 2001	1 lm to 99999 lm 0.1 W to 2000 W
6.	Tubular Fluorescent Lamps	Test For Electrical Luminous And Color Characteristics	IS 2418 (Part 1): 1977 (Clause 6.8) RA 2000	0.1 W to 2000 W 1 lm to 99999 lm 2000 k to 25000 k (x=0.527 to 0.253, y=0.413 to 0.252)
		Life Test – Lumen Maintenance	IS 2418 (Part1):1977(Cl. 6.9 & 7.4) RA 2000	1 h to 10000 h
7.	SSL (LED) Products	Electrical Parameters Tests	LM79/IS 16106: 2012	0.1 W to 2000 W
		Test For Total Luminous Flux		0.1 lm to 99999 lm
		Luminous Intensity Distribution		1 cd to 1000 cd
		Luminous Efficacy Test,		(1 lm to 100 lm)/W
		Test For Colour Characteristics		1500 k to 25000 k
8.	SSL (LED) Sources	Lumen Maintenance	LM80/IS 16105: 2012	0.1 W to 2000 W 1 lm to 99999 lm

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