

SR. NO.	TEST FACILITY	BRIEF TECHNICAL SPECIFICATIONS	REFERENCE STANDARDS
1	TYPE A GONIO PHOTOMETER FOR LIGHTING & SIGNALLING DEVICES (M/s. LMT, Germany)	5 degrees of freedom – two rotations and 3 translations along With photo-sensors measuring (lux) and (candela) values for various Lighting and signaling devices.	AIS : (10, 12 & 62) and ECER : (6, 7, 19, 23, 38, 98, 112 & 113, 123)
2	RETRO REFLECTION MEASUREMENT UNIT (M/s. LMT, Germany)	Combined with the Gonio Photometer to measure values in mill candela per unit lux.	AIS : (22, 57, 88, 89 & 90) and ECER : (3, 69, 104)
3	TWO : TRISTIMULUS COLORMETER SET UP FOR RETRO REFLECTORS & LIGHTING & SIGNALLING DEVICES (M/s. LMT, Germany)	Combined with Goniometer to measure Chromaticity Coordinates & CCT	AIS : (10, 12, 22, 57, 62, 88, 89, & 90) and ECER : (3, 6, 7, 19, 23, 38, 69, 98, 104, 112 & 113)
4	INTEGRATING SPHERE (1m dia) for LIGHT SOURCES (M/s. LUMETRONICS)	Spectral luminous flux measurement (lumen)	AIS : 034 and ECER : (037 & 99)
5	PROFILE PROJECTOR	Dimension measurement of the Automotive Light Sources	AIS : 034 and ECER : (037 & 99)

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6	ULTRAVIOLET & COLOR LUMINANCE FACTOR MEASUREMENT SYSTEM	UV output and Color measurement.	AIS: (10, 12, 22, 34 & 88) and ECER: (27, 37 & 99)
7	LUMINANCE METER (M/s. LMT, Germany)	Combined with Goniometer and RRPL set up to do Luminance measurement in candela per meter	AIS: (10 & 12) and ECER 4
8	TRANSMISSION & DIFFUSION MEASUREMENT SET UP	Plastics lens material testing to measure the change in transmission & diffusion after weather-o-meter, chemical reagent and mechanical deterioration.	AIS: (10 & 12) and ECER : (98, 112 & 113, 123
9	INTEGRATING SPHERE (0.5m dia) for SINGLE LED's (M/s. Labsphere, USA)	To measure Luminous flux, Color measurement, CRI, Dominant wavelength, Spectral Power Distribution & Luminous Intensity Capable for 2π & 4π configuration	Clause 6 as per IS 16105:2012, Clause 11,12,13 & 14 as per IS 16106:2012

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10	INTEGRATING SPHERE (2m dia) for LED CLUSTERS & LUMINARIES (M/s. Labsphere, USA)	To measure Luminous flux, Color measurement, CRI, Dominant wavelength, Spectral Power Distribution & Luminous Intensity Capable for 2π & 4π configuration	Clause 6 as per IS 16105:2012, Clause 11,12,13 & 14 as per IS 16106:2012 and CIE 127:1997
11	SPECTRORADIOMETER (M/s. Labsphere, USA)	For (350 – 1050)nm	-
12	Wi41G M/s. Osram	Standard Illuminant A	-
13	LN3 (M/s. LMT, Germany)	Standard Illuminant A	-
14	GLOSS MEASUREMENT	Gloss measurement for Glossary surfaces	ASTM D 2457 08E1 (2013), ASTM E 430-11 (1997), ASTM D523-08 (1999), NIST Pub. SP 250-70, JIS 8741, ISO2813 (1994)
15	SURFACE COLOR MEASUREMENT SET UP	To measure surface color of tiles	-
16	MECHANICAL DETORATION SET UP	To check the change in luminous intensity of Lighting devices.	AIS: (10 & 12) and ECER : (98, 112 & 113, 123
17	COLOR ENDURANCE FOR SIGNALLING SOURCES	To check the change in color coordinate after 240 hrs of cyclic operation	AIS : 034 and ECER : (037 & 99)

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18	ENDURANCE TEST SET UP FOR LIGHT SOURCES	Life test of Automotive Lamps	AIS : 034 and ECER : (037 & 99)
19	ENDURANCE TEST SET UP FOR HIGH UV DISCHARGE LAMPS	Calculate the k_{red} content of High UV discharge lamps after life test.	AIS: (10, 12 & 34) and ECER : (37, 98, 112 & 113, 123
20	STABILITY TEST RIG FOR LIGHTING DEVICES	To check the photometric compliance of Lighting devices after stability test of 12 hours.	AIS: (10 & 12) and ECER : (98, 112 & 113, 123
21	STANDARD LAMPS & KELVIN HOLDER (M/s. Philips & M/s. Osram)	For use while performing standard testing for all Lighting, Signaling & Light source measurement testing.	-
22	Climatic Chamber (M/s. Weiss Technique, Germany)	For endurance testing of Automotive Lamps & For Resistance to Temperature Change	AIS: (10, 12 & 34) and ECER : (37, 98, 112 & 113, 123