

4.0	Luminaire Manufacturers Design Data	402
4.1	LED light Source / Luminaire / System Data	404
4.2	Measured LED Module Data	404
4.3	Measured Luminaire Data	404
4.4	Rated Power	404
4.5	Power Factor	404
4.6	Rated Lumen Output	404
4.7	Light Loss Maintenance Factor	404
4.8	Rated Luminaire Efficacy	405
4.9	The Board Temperature	405
4.10	Lumen Depreciation	405
4.11	Life	405
4.12	Failure Fraction	405
4.13	Colour Temperature	405
4.14	Colour Maintenance	405
4.15	Colour Temperature Tolerance	405
4.16	Colour Rendering Index of the Luminaire	406
4.17	Light Intensity Distribution	406
4.18	Temperature Cycling Shock Test	406
4.19	Supply Voltage Switching Test	407
4.20	Thermal Endurance Test	407
5.0	Data required for Specification of LED and / or LED Luminaires / Systems	407
6.0	Lighting Controls	408
7.0	New Knowledge	408
8.0	Energy Consumption and Environmentally friendly sustainable Lighting Design Approach	408
8.1	Environmentally friendly Lighting Design	409
8.2	Energy Sustainability	410
8.3	Energy Sources	410
8.4	Solar Street Lighting Developments as a Future Way to reduce Energy Demand	411
9.0	Sustainable Lighting Design Codes of Practice and Industrial Standards	414
10.0	Institutes and Societies for Standardisation, Regulations and Societies for Lighting Technology	414
11.0	Conclusion	415