LIA LABORATORY LIMITED

Acceptance of Components

1. Acceptance of Components within the IECEE (CB scheme)

Follow by IECEE OD-2039 (https://www.iecee.org/documents/refdocs/)

2. Recognition of components within the ECS (ETICS)

Follow by ECS 028 (https://www.etics.org/doc/third.php?groupid=135&nbmax=47&typ=p)

3. Acceptance of Components within the LIA scheme

i. Existing harmonised standard for the component (EN standards)

	Guidelines for Component Acceptance Situation for Component Conformity Evidence	Verdict
1	Component have a national mark / license and certificate (e.g. Kitemark, Keymark, ENEC, TUV, VDE, DEKRA, etc..)	Acceptable
2	No national mark/license (no mark on a product), certificate of conformity is available with full test report (but not older than 5 years). Note: IECEE CB certificate shall be always provided together with associated test report (and vice versa).	Acceptable
3	No national mark/license, certificate of conformity is available with full test report but is older than 5 years	Not Acceptable
4	Full safety test report is available (but not older than 5 years). Note: IECEE CB test report shall be always provided together with associated certificate (and vice versa).	Acceptable
5	No national mark/license, no certificate of conformity, no test report. Component is tested with the luminaire partially, without full test report according to the component standard (for commercial components)	Not Acceptable
6	No national mark/license, no certificate of conformity, no test report. Component shall be partially tested (by the LIA Laboratory) with the luminaire to selected clauses (for components made in-house only)	Acceptable
7	No national mark/license, no certificate of conformity, no test report, no future tests to be done.	Not Acceptable
8	Component full safety assessment to be done through the LIA Laboratory (in-house or subcontracted).	Acceptable
▪	National mark/license or certificate of conformity shall be issued by a certification body accredited to ISO/IEC 17065 and test report shall be issued by a testing laboratory accredited to ISO/IEC 17025.	

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- Standard for component shall be in the scope of the certification body / testing laboratory.
- If the certification body / testing laboratory does not have the component standard in their scope, additional analysis will need to be conducted for acceptance.
- See list of acceptable components standards below (pages 3-4)

ii. No existing harmonised standard, but an IEC Publication or a national/regional standard for the component exists (IEC standards, national standards)

The same as for clause 3i.

iii. The luminaire standard contains component requirements

The component shall be checked for correct application and use in accordance with its specified ratings. It shall be subjected to the applicable tests of the luminaire standard, as part of the luminaire under the conditions occurring in the luminaire. The applicable tests shall be reported in the Test Report.

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Component Acceptance	
Component	**Safety Standard**
Controlgear	IEC/EN 61347 series
	IEC/EN 61347-2-2 (for filament lamps)
	IEC/EN 61347-2-3 (for fluorescent lamps)
	IEC/EN 61347-2-7 (for controlgear for emergency lighting)
	IEC/EN 61347-2-9 (for discharge lamps)
	IEC/EN 61347-2-13 (for LED modules)
Transformer	IEC/EN 61558 series
	IEC/EN 61558-2-6 (for SELV transformer)
	IEC/EN 61558-2-16 (for SELV transformer)
Wireless charger	IEC/EN 62728-1; IEC/EN 62368-1
USB port	Under consideration
Socket-outlet, Appliance inlet etc.	IEC/EN 60309
	IEC/EN 60309-1
	IEC/EN 60309-2
	IEC/EN 60320
	IEC/EN 60320-1
	IEC/EN 60320-2
	IEC 60884 series
Plug	IEC/TR 60083
	BS1363
	IEC 60884 series
	EN 50075
Terminal block	IEC/EN 60998-2-1
	IEC/EN 60998-2-2
	IEC/EN 60947-1
	IEC/EN 60598-1 (clause 14 or 15)
Connector	IEC/EN 61984
	IEC/EN 60838-2-2
Installation coupler	IEC/EN 61535
NEMA Socket	IEC/EN 61984
	IEC/EN 60309 series
	IEC/EN 61535
	IEC/EN 60598-1 (clause 14 or 15)
Overvoltage protective device (SPD)	IEC/EN 61643-11
Cables	IEC 60227 (PVC cables)
	IEC 60245 (rubber cables)
	EN 50525 series
	Technical specification for non-standardized construction (eg. VDE-REG, IMQ specification, BASEC, etc.)
Internal wiring	Datasheet or any relevant technical documentation is needed (at least information about Manufacturer, Model number, characteristics).
Lampholders	IEC/EN 60238 (Edison screw lampholders)
	IEC/EN 60400 (lampholders for tubular florescent lamps and starterholders)
	IEC/EN 60838 (Miscellaneous lampholders)
	IEC/EN 61184 (Bayonet lampholders)
Light sources	IEC/EN 60432-1 (Tungsten filament lamps)

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		IEC/EN 60432-2 (Tungsten halogen lamps)
		IEC/EN 60432-3 (Incandescent lamps)
		IEC/EN 60634 (Heat test sources (H.T.S) lamps)
		IEC/EN 61195 (Double-capped fluorescent lamps)
		IEC/EN 61199 (Single-capped fluorescent lamps)
		IEC/EN 62031 (LED modules)
		IEC/EN 62035 (Discharge lamps)
		IEC/EN 62560 (Self-ballasted LED lamps)
		IEC/EN 60968 (Self-ballasted fluorescent lamps)
		IEC/EN 62776 (Double-capped LED lamps to retrofit fluorescent lamps)
Sensor		IEC/EN 61058
		IEC/EN 60669-2-1
		IEC/EN 61347-2-11
Switch		IEC/EN 61058
		IEC/EN 60669
Battery	Lithium	IEC/EN 60086-4
		IEC/EN 62133
		IEC/EN 62368-1
	Li-Ion	IEC/EN 62133
		IEC/EN 61960
	NiCd	IEC/EN 61951-1
	NiMH	IEC/EN 61951-2
	Lead Acid batteries	IEC/EN 60869-21
		IEC/EN 61056-1
Fuse		IEC/EN 60127
Thermal link		IEC/EN 60691
Additional components – can be tested with appliance		
Cable sleeve		Tested with appliance, if applicable (at least datasheet is necessary)
Seal / gasket		Tested with appliance; To be always mentioned with IP rated luminaires (at least datasheet is necessary)
Gland		Tested with appliance; To be always mentioned with IP rated luminaires (at least datasheet is necessary)
Cord anchorage (clamp)		Tested with appliance; if applicable (at least datasheet is necessary)
Insulation foil		Tested with appliance, if applicable (at least datasheet is necessary)
Plastic body / plastic diffuser/ plastic lenses, etc.		Tested with appliance, if applicable (at least datasheet is necessary)
Other standards for component can be individually considered.		