


ELECTRICAL LABORATORY- TEST REPORT
Luminaries— Part 1: General requirements and tests



Test Report N°	
Date of issue.....	15-09-2016
Sample date in.....	28-07-2016
Date of performance.....	02-08-2016 to 03-09-2016
Applicant.....	
Customer.....	
Sample description.....	LED HIGHBAY LIGHT
Sample Condition.....	OK
Customer reference.....	N/A
Trade mark / Manufacturer.....	
Model / Type / Reference.....	ALPL-HB150
Ratings.....	100-270VAC, 50Hz, 150-180Watt
Test method(s).....	BS EN 60598-1:2015

Overall verdict	Pass	<input checked="" type="checkbox"/>
	Fail	<input type="checkbox"/>

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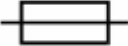

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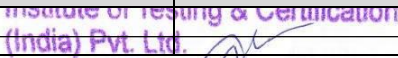
60598-1	Requirement	Result/Remarks	Verdict
2	Classification of Luminaries		
2.2	Classification according to type of protection against electric shock	Class I	P
2.3	Classification according to degree of protection against ingress of dust, solid, objects and moisture	IP-20 Protected	P
2.4	Classification according to material of supporting surface for which the luminaries is designed	Luminaires suitable for direct mounting on normally flammable surfaces	N/A
2.5	Luminaires shall be classified according to whether they are intended for normal use or for rough service.		
	- Luminaires for normal use		P
	- Luminaires for rough service		N/A
3	Marking		
3.2	Height of symbols and letters		
	- Symbols : ≥ 5 mm except that symbols for class II and class III luminaires and may be reduced to a minimum of 3 mm where the space available for marking is restricted		P
	- Letters : ≥ 2 mm		P
3.2.1	Mark of origin  (to be observed during Installation)	Provided	P
3.2.2	Rated voltage (to be observed during Installation)	Rated voltage:- 100-270V	P
3.2.3	Rated max. ambient temperature other than 25 °C (to be observed during Installation)	Max. ambient temperature - 45° C	P
3.2.4	Symbol for class II (to be observed during Installation)	class I	N/A
3.2.5	Symbol for class III (to be observed during Installation)	class I	N/A
3.2.6	Marking for IP number (to be observed after Installation)	IP-20 Protected	P
3.2.7	Makers model number or type (to be observed during Installation)	Model :- ALPL-HB150	P
3.2.8	Rated Wattage (to be observed during replacing lamp)		N/A
3.2.9	Symbol for luminaires not suitable for direct mounting on normally flammable surfaces.  (to be observed during Installation)		N/A
3.2.10	Special Lamps (to be observed during replacing lamp)		N/A

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3.2.11	Use of dichroic reflectorized "Cool Beam" lamp (to be observed during replacing lamp)		N/A
3.2.12	Termination details or polarity (to be observed during Installation)		N/A
3.2.13	Minimum distance from lighted object (to be observed after Installation)		N/A
3.2.14	Rough service luminaires (to be observed after Installation)		N/A
3.2.15	Symbol  Use with bowl mirror lamps (to be observed during replacing lamp)		N/A
3.2.16	Replacement of cracked protective shield (to be observed during replacing lamp)		N/A
3.2.17	Max. number of luminaires for interconnection (to be observed during Installation)		N/A
3.2.18	Luminaires with ignitors for double ended discharge lamps (to be observed during replacing lamp)		N/A
3.2.19	Symbol for luminaires which are designed to be used only with self-shielded tungsten halogen lamps or self-shielded metal halide lamps. (to be observed during replacing lamp)		N/A
3.2.20	Where necessary, the means of adjustment where not obvious, needs to be identified		N/A
3.2.21	Symbol luminaires not suitable for covering with thermally insulated material (to be observed during replacing lamp)		N/A
3.2.22	Symbol  for luminaires with internal replaceable fuses. (to be observed during replacing lamp)	Replaceable fuse of 6 Amps has been provided in the internal PCB circuit.	P
	Such a luminaire shall, in addition, be provided with information regarding the rated current (in A or mA) of the fuse.		N/A
3.2.23	Warning symbol "Do not stare at the operating light source" (see Figure 1) for portable  and handheld luminaires that have been classified as having a threshold illuminance Ethr in accordance with IEC/TR 62778		N/A

7	Provision for earthing		
7.2.1	Earthing of metal parts of class I	 Institute of Testing & Certification (India) Pvt. Ltd.	P Page 4 of 22


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7.2.2	Surfaces in adjustable joints, telescopic tubes etc. providing earthing continuity shall be such that a good electrical contact is ensured		P
7.2.3	Resistance $\leq 0.5 \Omega$	 Resistance Measured -23.0 m Ω	P
7.2.4	Earthing terminals shall comply with the requirements of 4.7.3, the connection shall be adequately locked against accidental loosening		P
7.2.5	For a luminaire provided with a connector socket for a mains supply, the earth contact shall be an integral part of the socket		N/A
7.2.6	For a luminaire to be connected to supply cables (fixed wiring) or to a supply cord, the earth terminal shall be adjacent to the mains terminal.		P
7.2.7	For luminaires other than ordinary luminaires, all parts of an earth terminal shall be such as to minimize the danger of electrolytic corrosion		P
7.2.8	Either the screw or the other part of the earth terminal shall be made of brass or other non-rusting metal		P
7.2.10	If a fixed class II luminaire designed for looping-in is provided with internal terminal(s) for maintaining the electrical continuity of an earthing conductor		N/A
7.2.11	When a class I luminaire is supplied with an attached flexible cord, this cord shall have an earthing core coloured green-yellow		P
9	Resistance to dust, solid objects and moisture		
9.2	Tests for ingress of dust, solid objects and moisture	IP 20 Protected	P
9.2.0	Tests for solid-object-proof luminaries	IP 2X protected	P
9.2.1	Dust-proof luminaries		N/A
9.2.2	Dust-tight luminaries		N/A
9.2.3	Drip-proof luminaries		N/A
9.2.4	Rain-proof luminaries		N/A
9.2.5	Splash-proof luminaries		N/A
9.2.6	Jet-proof luminaries		N/A
9.2.7	Water-tight luminaries		N/A
9.2.8	Pressure water-tight luminaries		N/A

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9.3	Humidity test	Tested for 48hr at temp: 25°C±2°C and RH: 93%±2%.	P
10	Insulation resistance and electric strength		
10.2.1	Insulation Resistance	 Measured value = >1GΩ (Refer Table 3)	P
10.2.2	Electric Strength	 No breakdown/ flashover occur (Refer Table 3)	P

Table: 3

Sr. No	TEST CONDUCTED	TEST CONDITIONS	TEST REQUIREMENTS	RESULTS
01	Provision for Earthing	Test Current – 10A Test Duration: 1 min	Resistance ≤ 0.5 Ω	Resistance Measured -23.0 mΩ
02	Insulation Resistance Test	Test Voltage: 500V D.C Test part: Between live part and metal part of the luminaire	Shall not be Less than 1 M Ohm	Pass: (R _{mea} : > 1 GΩ)
03	High Voltage Test	Test voltage: 1460V Test Duration: 1 min. Test Part: Between live part and metal part of the luminaire	Shall withstand without breakdown	Pass No flashover or breakdown occur.
04	Touch Current	During Normal operation of the luminaire between each pole of the supply source and the body of the luminaire	Shall not exceed 2 mA	Pass (I _{mea} : 5.83 μA)