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Report No.: GTI20150352S

Page 1 of 25

PSE TEST REPORT

Product name : LED High Bay Light

Trademark : YAHAM

Model(s) : YHL-ID-180-HB-VE, YHL-ID-120-HB-VE, YHL-ID-100-HB-VE,
YHL-ID-150-HB-VE

Applicant : Yaham Optoelectronics Co., Ltd.

Address of applicant : 4 Bldg, Han'S Laser Industrial Park, No 128 Chong Qing Rd.,
Fuyong Baoan District, Shenzhen, China

Test date : Aug.3, 2015 to Aug.10, 2015

Date of issue : Aug.11, 2015

Test result :	Pass *
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* In the configuration tested, the EUT complied with the standards specified APPENDIX 8.



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TEST REPORT

Report Number.....: GTI20150352S

Tested by (+ signature): Hardy Huang

Reviewed by (+ signature): Rita Liu

Approved by (+ signature): Walter Chen

Date of issue.....: Aug.11, 2015

Hardy Huang
Rita Liu
Walter Chen

Total number of pages.....: 25 pages

Test specification:Standard.....: APPENDIX 8 (AC APPLIANCES AND MACHINES,
TRANSPORTABLE ENGINE GENERATORS) (including the revision
on 2012-4-24)

Test procedure.....: Type test

Non-standard test method.....: N/A

Test item description: LED High Bay Light

Trade Mark: Yaham

Manufacturer: Yaham Optoelectronics Co., Ltd.

Address: 4 Bldg, Han'S Laser Industrial Park, No 128 Chong Qing Rd.,
Fuyong Baoan District, Shenzhen, China

Factory: Same as Applicant

Address: Same as Applicant

Model/Type reference: YHL-ID-180-HB-VE, YHL-ID-120-HB-VE, YHL-ID-100-HB-VE,
YHL-ID-150-HB-VE

Ratings: See below

Testing procedure and testing location:

☒ **Testing Laboratory:** Shenzhen General Testing & Inspection Technology Co., Ltd.
Testing location/ address.....: 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park,
Shenzhen, Guangdong, China

**Summary of testing:**

YHL-ID-180-HB-VE and YHL-ID-100-HB-VE were subjected to full test.

Test items particulars:

Lamp cap: E39

Lamp identification: Self-ballasted LED lamp

Test case verdicts

Test case does not apply to the test object: N/A

Test item does meet the requirement: P(ass)

Test item does not meet the requirement: F(ail)

Testing

Date of receipt of test item: Aug.03, 2015

Date(s) of performance of test: Aug.03, 2015 to Aug.10, 2015

General product information:

The product covered in this report is one LED lamp with E39 lamp cap.



Model description

Models No. YHL-ID-100-HB-VE, YHL-ID-120-HB-VE, YHL-ID-150-HB-VE, YHL-ID-180-HB-VE, are using the same electrical principle and physical structure. The difference between the models are listed as below:

Model No.	Input Volt/ Frequency	Current	Power	IP	Dimension (L/W/H)	Weight	Driver Model	Output of Driver	Qty of Driver	Qty of LED	LED Part No.	Color Temp
YHL-ID-100-HB-VE	100- 240V ac, 50/60 Hz	3.1	100	65	L220*W220* H195	1.2	HLG-10 0H-36A	36VDC 2.65A	1	210	NF2W757	5000
YHL-ID-120-HB-VE		3.7	120		L220*W220* H195	1.2	HLG-15 0H-36A	36VDC 3.6A	1	250	NF2W757	
YHL-ID-150-HB-VE		4.6	150		L280*W280* H260	1.8	HLG-15 0H-36A	36VDC 4.2A	1	320	NF2W757	
YHL-ID-180-HB-VE		5.6	180		L280*W280* H260	1.8	HLG-18 5H-36A	36VDC 5.2A	1	380	NF2W757	



1	General Requirement		P
1.1	Materials		P
1.1.1	Body materials	Metal	P
1.1.2	Electrical insulating materials and thermal insulating materials	Class of electrical appliance: Class 1	P
1.1.3	Appliance components and structural materials		P
1.1.4	Electrical insulating materials used for sections liable to be subjected to arcing.		P
1.1.5	Rustproof of iron and steel parts		P
1.1.6	Current carrying materials		P
(1)	The parts of blade and tooth rest		N/A
(2)	Other parts except the above (1)	Current carrying parts of lamp cap, foil on PCB board, winding and lead wires are all copper.	P
1.1.7	Enclosure materials for outdoor type		P
1.1.8	Materials of terminal screws for power supply wires		N/A
1.1.9	Materials of earthing terminal screws		P
1.1.10	Poly-chloride-biphenyl free		P
1.1.11	Materials of sections contacting with drinking water, food or the like.		N/A
1.2	Construction		P
1.2.1	Shape and assembly operation		P
Explanatory note2	Connection to supply source with switch open	No switch used.	N/A
Explanatory note2	No-load running by remote controlled and unattended operation appliances	No such device.	N/A
Explanatory note2	Code storage hooks	No such device.	N/A
Explanatory note3	Compatibility of dimensions of plugs	No such device.	N/A
Explanatory note4	Sensors to human body	No such device.	N/A
Explanatory note5	T-shaped plug use	No such device.	N/A
Explanatory note6	Multiple power sources		N/A
Explanatory note7	Protection of branch points of power supply wires		P
Explanatory note8	Non-operate of protective device at normal situation	No such device.	N/A
1.2.2	Remote control mechanisms		N/A
1.2.3	Adequate stability of appliance body(Tilt test)	No such device.	N/A
1.2.4	Mounting on building structures		N/A



1.2.5	Arc resistance		N/A
1.2.6	Protection of live parts (except the parts (1)-(5))		P
(1)	Live parts of mounted surface not readily accessible when installed		P
(2)	Live parts at a distance of no less than 40cm from the openings of the bottom of appliances of which mass exceeds 40kg		N/A
(3)	Exposed live parts of which appliances have structures unavoidably causing exposure of live parts, which apply to the requirement		N/A
(4)	Heating elements which generate heat under current-carrying moment (Rated voltage $\leq 150V$)		N/A
(5)	Functionally exposed live parts unavoidable to use		N/A
1.2.7	Clearance and creepage distance	See attached table	P
(1)	Functionally unavoidable sections		N/A
(2)	Secondary circuits of insulating transformer, rectified circuits and the like.		P
a	Short-circuits between opposite polarity live parts		N/A
b	Discharge test shall be conducted at the part of which peak voltage exceeds 2500V		N/A
(a)	Flame extinguishing time: ≤ 15 seconds		N/A
(b)	Placed in a shielding box		N/A
c	Live parts are exposing when connected		N/A
(a)	Voltage AC: $\leq 30V$, DC: $\leq 45V$		N/A
(b)	Leak current		N/A
d	After the test specified in above clause a, insulating resistance: $\geq 0.1M\Omega$		N/A
(3)	Rated voltage of commutator parts of electric motors: AC: $\leq 30V$, DC: $\leq 45V$		N/A
1.2.8	Thickness of insulating materials		P
	Materials of enclosure doubling as insulation		N/A
	Insulating materials used in sections liable to be externally damaged		N/A
	Insulation materials used in sections not liable to be externally damaged		N/A
1.2.9	Terminal areas between live parts or between live parts and non-live parts		P
1.2.10	Internal wiring		P
(1)	Protection against contacting hot sections		P
(2)	Protection against contacting movable parts	No movable part in this appliance.	N/A
(3)	Damage prevention for coatings of wires		N/A
(4)	Terminal areas of connectors shall be stable		N/A



(5)	Bending test for movable parts (reciprocating 1000 times within a range of movement)		N/A
1.2.11	Protection of through-holes for power supply cords or cables		N/A
1.2.12	Tensile force test for power supply cords and the like: Tensile force ____N for 15 seconds Push-in test for power supply cords and the like		N/A
1.2.13	Protection of wires connecting between devices		N/A
1.2.14	The parts where current-carrying sections placed in hollow porcelain pass through metal parts		N/A
1.2.15	Protection of live parts against water		N/A
1.2.16	Moisture proof	No absorption of moisture material used	N/A
1.2.17	Installing over temperature thermostat and over current protection devices		N/A
	Not operating in normal use		N/A
1.2.18	Grounding by earth mechanism		P
(1)	Separated from live parts by double insulation or reinforced insulation		P
(2)	Double insulation structure		N/A
(3)	Enclosure made from water-proof synthetic resin		N/A
a	Mechanical strength		N/A
b	Insulation resistance $\geq 3M \Omega$		N/A
c	Withstand voltage 4000V, 1min.		N/A
1.2.19	Earth mechanism		P
(1)	Installing earth mechanism		P
(2)	Connection with accessible metal parts		P
(3)	Separated from live parts by double insulation or reinforced insulation		P
(4)	Marking of earth mechanism		N/A
(5)	Earth terminals		N/A
1.2.20	Protection of motor rotation		N/A
1.2.21	Protection of moving parts		N/A
1.2.22	Attaching or detaching a part of the appliance body		N/A
(1)	Attaching or detaching easily, securely and safely		N/A
(2)	Easily, securely and safely tightening a part to open when cleaning		N/A
1.2.23	Protection of inside lamps		N/A
1.2.24	Marking of switches		N/A
1.2.25	Contacting with live parts of heating elements or with electrode and liquid		N/A



1.2.26	Mounting parts of wires		N/A
(1)	Available to securely fix wires		N/A
(2)	Using nuts or washers when fixing 2 or more wires		N/A
(3)	No terminal screws for power supply cords shall be used for others.		N/A
1.2.27	Equipped with heating elements		N/A
(1)	Mounting parts of heating elements		N/A
(2)	Demand for switches which can close at all poles simultaneously		N/A
1.2.28	Installing fuses or fusing resistor		N/A
(1)	Circuit completely interrupted		N/A
(2)	No short-circuit due to arcing and no danger of earthing		N/A
(3)	No damages on lids, boxes or boards of fuse holder section		N/A
(4)	Fuses can be easily and securely mounted		N/A
(5)	Dimension of mounting parts for fuses using dished washer		N/A
(6)	Clearance between open fuses and the appliance body: $\geq 4\text{mm}$		N/A
(7)	No terminal screws for fuse shall be used for others		N/A
(8)	No danger of ignition caused by heat of fusing Resistor		N/A
1.2.29	Residual charge of capacitors		N/A
1.2.30	Marking of fuses		N/A
1.2.31	Structural strength of enclosure		N/A
1.2.32	Drop strength test for controllers separating from the appliance body: 70cm, 3 times		N/A
1.2.33	Abnormal conditions of controlling temperature, revolving speed and the like by using semiconductors		N/A
a.	Components connected to control circuit		N/A
b.	Dead metal parts and exposing live parts liable to earth		N/A
(a)	Voltage to ground: less than or equal to 30V AC less than or equal to 45V DC		N/A
(b)	Leak current between conductors and ground: $\leq 1\text{mA}$		N/A
c.	Insulation resistance after the test: $\geq 0.1\text{M}\Omega$		N/A
1.2.34	Interconnect mechanism with external devices		N/A
(1)	Output display of plug socket		N/A
(2)	Marking of impedance for ready access terminals connecting with speakers		N/A
1.2.35	Caution mark of high voltage		N/A

1.2.36	Equipped with cable reels		N/A
(1)	Reel in and out test:30m/min, 1000 times		N/A
(2)	Temperature rise inside of cable reels		N/A
1.2.37	Flexing life test for power supply cords and cables Speed of reciprocating motion: cycles/min., Angle: °		N/A
1.2.38	Closing electrical circuits by using coins or other similar objects		N/A
1.2.39	Flame resistance of plastic enclosure		P
1.2.40	Output circuit of insulating transformers with electron tubes, capacitors, semiconductors and resistors, and rectified circuits or the like		P
(1)	Short-circuit between terminals of electron tubes, indication lights and the like		N/A
	Disconnection between terminals of heaters and Filaments		N/A
(2)	Short-circuit and disconnection between terminals of capacitors, semiconductors, resistors, transformers, coils and the like		P
(3)	Short-circuit between terminals and cases holding (1) and (2) contained in metal casing		N/A
(4)	Compliance check		P
	Explanatory note: Capacitors complying with tests stipulated in appendix 4, 1.3.8		N/A
			N/A
	Explanatory note: Capacitor coupled with resistor	Rate of change in resistance before and after testing: $\geq 50\%$ Insulation resistance: $\geq 0.1\text{M}\Omega$	N/A
a	Dead metal parts and exposing live parts liable to earth		N/A
(a)	Voltage to ground: less than or equal to 30V AC less than or equal to 45V DC		N/A
(b)	Leak current between conductors and ground: $\leq 1\text{mA}$		N/A
b	Insulation resistance after the test: $\geq 0.1\text{M}\Omega$		N/A
1.2.41	Using batteries		N/A
(1)	Insulation distorted and deteriorated by battery fluid leakage		N/A
(2)	Charging test for rechargeable batteries		N/A
1.2.42	Equipped with switching mechanism for rated input voltage and rated frequency		N/A
(1)	Available to tell voltage switch from frequency One		N/A
(2)	Prevention against carelessly switching		N/A
(3)	Safety under the condition of loosing its function when incorrectly switching		N/A
1.2.43	Protection against steam given off from within		N/A

	the appliance body		
1.2.44	Flame resistance of heat insulators filled around electrical components sections.		N/A
1.2.45	Heating appliances connecting the bodies and the power supply wires by connectors		N/A
(1)	Dimensions of blade and tooth rests		N/A
(2)	Junction structures of blade and tooth rests		N/A
(3)	Terminal areas holding plug-in tooth rests		N/A
(4)	Switching test specified in Appendix 4, Supplement Article S2.1		N/A
1.2.46	Splashing test for glass windows installed on the enclosure surfaces of heating appliances		N/A
1.2.47	Used under pressure caused by steam		N/A
(1)	Checking of operations of pressure relief valves		N/A
(2)	Test for arresting pressure relief valves		N/A
1.3	Components and accessories		P
1.3.1	Rated values of components shall be greater than or equal to the maximum ones under busy Conditions		P
1.3.2	Power supply cords and the like		N/A
1.3.3	Earth wire ☐ (1) ☐ (2) ☐ (3) ☐ (4)		N/A
1.3.4	Fuses		P
(1)	Materials of fuse elements shall not easily change in quality		P
(2)	Materials of mounting terminals shall be hard enough to be fixed without difficulty		N/A
(3)	Check test for operating temperature of thermal Fuses		N/A
(4)	Thermostats ☐ Thermostats ☐ Overtemperature thermostats		N/A
1.3.6	Automatic switches ☐ Overtemperature thermostats ☐ Others		N/A
1.3.7	Switches for controlling electric motors ☐ Time switch ☐ Others		N/A
1.3.8	Switch for other than motors		N/A
1.3.10	Connectors		N/A
	Complying with Appendix 4, Article 1.1 regarding materials		N/A
	Complying with Appendix 4, Article 1.2, regarding structures, paragraphs 1.2.1, 1.2.5, 1.2.6, 1.2.8, 1.2.10, 1.2.11, 1.2.12, 1.2.13, 1.2.14, 1.2.15, 1.2.16, 1.2.17, 1.2.19, 1.2.22, 1.2.23, 1.2.26 and 1.2.2		N/A
	Complying with Appendix 4, Article 6.1 regarding structures, paragraphs 6.1.1, 6.1.3 6.1.4 and 6.1.5		N/A
	Appendix 4, 6.3.2: Strength of enclosures		N/A
	Appendix 4, 6.3.3: Holding strength		N/A



	Appendix 4, 6.3.6: Switching performance		N/A
	Appendix 4, 6.3.7: Temperature rise		N/A
	Appendix 4, 6.3.8: Insulation performance		N/A
	Appendix 4, 6.3.9: Breaking capacity for short-circuit (open fuses)		N/A
	Appendix 4, 6.3.10: Contact resistance		N/A
	Appendix 4, 6.3.11: Burning resistance (Integral moulding products)		N/A
1.3.11	Transformers and voltage regulators		P
	Complying with Appendix 6, Articles 1.1 regarding materials (except paragraph 1.1.9)		P
	Complying with Appendix 6, Article 1.2 regarding structures, paragraphs 1.2.1, 1.2.3, 1.2.5, 1.2.6, 1.2.7, 1.2.8, 1.2.10, 1.2.16, 1.2.19 and 1.2.20		P
1.3.12	Discharge lamp stabilizers		N/A
1.3.13	Electric motors		N/A
1.3.14	Capacitors		P
	Appendix 4, 1.3.8: Dielectric strength		P
	Appendix 4, 1.3.8 (2)a: Insulation resistance Test		P
	Appendix 4, 1.3.8 (2)b: Moisture resistant insulation test		P
	Appendix 4, 1.3.8 (3): Clearance between external terminals		P
1.3.15	Overload protectors (excluding fuses)	No such device	N/A
1.3.16	Overload protectors using fuses for electric Motors		N/A
1.4	Tolerance of power consumption and the like	See attached table	P
1.5	Radio noise strength		P
1.6	Running performance influenced by voltage variation		P
1.7	Double-insulation structure		N/A
1.8	Characteristics of starting (with electric motor)		N/A
1.8.1	Starting voltage (90% of rated voltage)		N/A
1.8.2	Starting currents (only for those which shall be marked)		N/A
1.9	Leakage current		P
1.10	Cathode ray tube for TV and its other parts		N/A
1.11	Solar battery module		N/A
1.12	Markings	(See attached table)	P

86-6-2	LED lamps		P
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	A. Construction	P
	(a) <u>copper or a copper alloy.</u>	P
	(b) <u>The dimensions of the interlocking area of the base must be compliant with JIS C 7709-1</u>	P
	(c) <u>capacitor-equipped lamps, the voltage between the base recharger units of different polarities one second after power is cut must be 45v or less.</u>	P
	<u>not apply to apparatus where the total capacitance of the circuits viewed from the base recharger units of different polarities is 0.1μF or less.</u>	N/A
	(d) <u>Flickering of optical output of LED-equipped lamps used for general lighting should not be recognizable.</u>	P
	<u>Interpretation</u>	--
	<u>1. The items listed below are not included in "LED-equipped lamps used for general lighting"</u>	N/A
	<u>(1) Stroboscope or other special effect lights</u>	N/A
	<u>(2) Lights that are not used for long periods of time by human beings for illumination in standard homes, offices, etc.</u>	N/A
	<u>2. Same as Interpretation 2 of Appended Table 8-2 (86) a (f).</u>	N/A
	(e) <u>Lamps must be designed to prevent the occurrence of smoke, fire or other fire hazard-related malfunction while in service.</u>	P
	<u>Interpretation</u>	--
	<u>Items that satisfy (1) and (2) below shall be considered to have been "designed to prevent the occurrence of smoke, fire or other fire hazard-related malfunction while in service".</u>	P
	(1) <u>Flame, smoke or combustible gasses must not be generated when the following tests are performed. Adjust input voltage to a rated value 150% that of input voltage, and when temperature stabilizes, continue this state for 15 minutes. If the rated value of input power cannot be increased to 150%, increase either the input voltage or the input current to 150%. However, if input power is restricted by a protective device or protective circuit, increase to the power value limit (an apparatus with surge absorber, etc. can be disconnected from the circuit during testing.</u>	P
	(2) <u>When performing metal test or a test regulated by JIS C60695-2-11 (2004), or JIS C60695-2-12 (2004) at a test temperature of 650°C, the enclosure surrounding the power circuit mounted on the outer wall or inside the lamp to protect the power circuit's recharger component from electrical shock should be configured with materials compliant with these provisions or materials where the JIS C60695-2-13</u>	P



	<u>(2004) compliant glow-wire ignition temperature is 675°C or higher.</u>		
	<u>B. Insulation Performance</u>		P
	<u>The tests in Appended Table 3-1 and 3-2 must be performed in compliance with these provisions..</u>		P
	<u>C. Adhesive Strength of the Base</u>		P
	<u>(a) In the case of lamps equipped with the bases listed in the following table, abnormality should not occur between the base of the base pin and the area retained when removing and replacing the lamp as torsional moment is gradually applied to the screws listed in the same table.</u>		P
	GX53: 3 Nm		N/A
	B22d: 3 Nm		N/A
	<u>(b) In the case of lamps equipped with the bases listed in the following table, abnormality should not occur between the base screw component and the area retained when removing and replacing the lamp as torsional moment is gradually applied to the screws listed in the same table</u>		P
	E11: 0.8 Nm		N/A
	E12: 0.8 Nm		N/A
	E14: 1.15 Nm		N/A
	E17: 1.5 Nm		N/A
	E26: 3 Nm		N/A
	The others		P

Attached table

1.1.1 and 1.1.2	Ball pressure test				P
	Rated diameter of dent: ≤2mm ／				
Testing points		Registered conditions (Number, temperature etc.)	Temperature rise(K)	Test temperature (°C)	Diameter of dent(mm)
Lamp base holder		50	24.4	125	< 1 mm
PCB for LED module		50	46.7	125	< 1 mm

1.1.1 and 1.1.2	Cut-through test				N/A
	Cut-through temperature (or registered temperature): -55≥Temperature rise				
Testing points		Registered conditions (Number, temperature etc.)	Temperature rise(K)	Cut-through temperature limit (°C)	
--		--	--	--	

1.1.1 and 1.1.2	Hygroscopicity test			P
	Weight after moisture absorption/Weight before moisture absorption ×100 ≤ 110%			
Testing points		Weight before moisture absorption(g)	Weight after moisture absorption(g)	Before-after ratio (%)
The whole appliance for model YHL-ID-100-HB-VE		1.235	1.25	101.2%
The whole appliance for model YHL-ID-180-HB-VE		1.890	1.92	101.59%



Supplement 1	Clearance and creepage distance of electric shavers and the like (showing minimum value for each measured point)			N/A
Measurement location			Value limit(mm)	Measured value(mm)
Terminal parts	Between terminal parts of heteropolar and between terminal parts and dead metal parts liable to be earthed		--	--
Live parts other than terminal parts	Between terminal parts of heteropolar and between terminal parts and dead metal parts liable to be earthed or surface of accessible nonmetallic parts	Fixed parts resistant to dust penetration and metal dust deposition	--	--
		Other parts	--	--

Supplement 2	Clearance and creepage distance			P
Measurement location		Line voltage and voltage to ground(V)	Value limit (mm)	Measured value (mm)
Between primary and secondary circuit		250	5.0	≥ 10.0
Between Live part and outer enclosure		250	5.0	≥ 10.0

1.4	Limit deviation tolerance of power consumption and the like				P
Operating condition (voltage, frequency etc.)		Rated value (VA)	Tolerance (%)	Measured value (VA)	Measured Current (A)
YHL-ID-180-HB-VE					
100V/50Hz		180	2.9	185.3	1.854
100V/60Hz		180	2.8	185.1	1.851
240V/50Hz		180	0.3	180.6	0.776
240V/60Hz		180	0.1	180.2	0.775
YHL-ID-100-HB-VE					
100V/50Hz		100	4.0	104.0	1.032
100V/60Hz		100	3.8	103.8	1.030
240V/50Hz		100	2.0	102.0	0.437
240V/60Hz		100	2.0	102.0	0.437

2	Normal temperature rise test		P
	Test condition : 254.4V, 50 Hz, ambient temperature: 50 °C Operating temperature:		
Measurement location (Thermocouple method)		Measured temperature (°C)	Temperature limit (°C)
YHL-ID-180-HB-VE			
Metal enclosure (LED driver)		62.3	85
Inner wire connected to LED		74.4	100
Metal enclosure of high Bay Light		75.3	85
PCB for LED module		76.7	90
Lamp base		52.4	90
LED lens		70.1	100
YHL-ID-100-HB-VE			
Metal enclosure (LED driver)		60.9	85
Inner wire connected to LED		72.6	100
Metal enclosure of high Bay Light		73.5	85
PCB for LED module		73.6	90
Lamp base		51.3	90
LED lens		69.8	100

Supplement 3.1	Insulation resistance test: Others (Before test) temperature: 28°C, humidity 71% (After test) temperature: 28°C, humidity 71%		P
Test condition	Measurement location (Type of insulation)	Measured value (MΩ)	Standard value (MΩ)
Before normal temperature rise test	Between live parts and surface of appliance body	> 100	2
	Between primary circuit and secondary circuit	>100	4
After normal temperature rise test	Between live parts and surface of appliance body	> 100	2
	Between primary circuit and secondary circuit	>100	4

*: Metal foils are put on surface of appliance body

Supplement 3.2	Dielectric strength test (temperature: 28°C, humidity 71%)			P
Test condition	Location for test voltage applied	Test voltage(V)	Dielectric breakdown (Yes/No)	
3.2.1 and 3.2.4 After normal temperature test	Between live parts and surface of appliance body	1500	NO	
	Additional insulation parts	--	--	
	Reinforced insulation parts	4000	NO	
3.2.2 Appliances with auto-transformers of which voltage to ground exceeds 150V	Between live parts and surface of appliance body	--	--	
3.2.3 Appliances with isolating transformers	Between output side of transformer and surface of appliance body	500	NO	
	Between windings of transformer	4000	NO	

*: Metal foils are put on surface of appliance body

Supplement 3.3	Water injection test for insulation (Ambient temperature while water being poured: °C)			P
Insulation resistance test	Measurement location (Type of insulation)	Measured value (MΩ)	Standard value(MΩ)	
Insulation resistance test	Between live parts and surface of appliance body(basic insulation)	100	2	
	Additional insulation part	--	--	
	Reinforced insulation part	100	4	

Dielectric strength test	Location for test voltage applied	Test voltage(V)	Dielectric breakdown (Yes/No)	
Supplement 3.2.1and 3.2.4	Between live parts and surface of appliance body(basic insulation)	1500	No	
	Additional insulation part	--	--	
	Reinforced insulation part	4000	No	
Supplement 3.2.2	Between live parts and surface of appliance body with auto-transformer of which voltage to ground exceeds 150V	--	--	
Supplement 3.2.3	Between output side of auto-transformer and surface of appliance body	500	No	
	Between windings of isolating transformer	4000	No	

*: Metal foils are put on surface of appliance body



Supplement 6	Marking		
Marking items	Marking details	Marking location	Marking method
PSE mark	Circle PSE mark	Enclosure	Printed on label and pasted on enclosure
Name of Manufacturer	Yaham Optoelectronics Co., Ltd.		
Name of Importer	日本XX株式会社		
Input voltage	100-240V~		
Input capacity	See label		
Frequency	50/60Hz		

Attached table: List of main components and materials

List of main components and materials				
Components Materials	Manufacturer	Type Model	Technical data	Certification mark
LED	Nicha	NF2W757	IF:200mA, VF:5.7-7.1V Size:3.0*3.0*0.52 70-CRI White	Tested with appliance
LED aluminum PCB	SHENZHEN JINGXINWEI TECHNOLOGY CO LTD	JXW-001	90°, V-0, 1.5mm	UL E351131
Inner wire connected to LED	Dong Guan Recheer Electric Wire & Cable Co., Ltd.	H05RN-F	450V/750V, 2*1.0mm	VDE 40015173
LED LENS	TEIJIN LIMITED RESIN AND PLASTIC	LN-2525Z(#)(f1)	PC, V-0, 125°C , 3.0mm	UL E50075
LED Light base holder	LG CHEMICAL (GUANGZHOU) ENGINEERING PLASTICS CO LTD	LUPOX GP-1006F(#)	PC ,5VA, 130°C , min.thickness:3.0mm	UL E248280
LED driver for YHL-ID-100-HB-VE	Mean Well Enterprises Co., Ltd.	HLG-100H-36A	Input:AC100-240V, Output: 36VDC,2.65A	Approved by PSE
LED driver for YHL-ID-120-HB-VE	Mean Well Enterprises Co., Ltd.	HLG-150H-36A	Input:AC100-240V, Output: 36VDC, 3.6A	Approved by PSE
LED driver for YHL-ID-150-HB-VE	Mean Well Enterprises Co., Ltd.	HLG-150H-36A	Input:AC100-240V, Output: 36VDC, 4.2A	Approved by PSE
LED driver for YHL-ID-180-HB-VE	Mean Well Enterprises Co., Ltd.	HLG-185H-36A	Input:AC100-240V, Output: 36VDC, 5.2A	Approved by PSE

YAHAM	LED高天井灯
YAHAM OPTOELECTRONICS CO., LTD.	型番: YHL-ID-100-HB-VE
入力電圧: 100-240VAC, 周波数: 50/60Hz	
消費電力: 100W 色温度: 5000K	  
重量: 1.2±0.5kg	
使用環境温度: 50°C	MADE IN CHINA
輸入事業者: 日本XX株式会社	

YAHAM	LED高天井灯
YAHAM OPTOELECTRONICS CO., LTD.	型番: YHL-ID-120-HB-VE
入力電圧: 100-240VAC, 周波数: 50/60Hz	
消費電力: 120W 色温度: 5000K	  
重量: 1.2±0.5kg	
使用環境温度: 50°C	MADE IN CHINA
輸入事業者: 日本XX株式会社	

YAHAM	LED高天井灯
YAHAM OPTOELECTRONICS CO., LTD.	型番: YHL-ID-150-HB-VE
入力電圧: 100-240VAC, 周波数: 50/60Hz	
消費電力: 150W 色温度: 5000K	  
重量: 1.8±0.5kg	
使用環境温度: 50°C	MADE IN CHINA
輸入事業者: 日本XX株式会社	

YAHAM	LED高天井灯
YAHAM OPTOELECTRONICS CO., LTD.	型番: YHL-ID-180-HB-VE
入力電圧: 100-240VAC, 周波数: 50/60Hz	
消費電力: 180W 色温度: 5000K	  
重量: 1.8±0.5kg	
使用環境温度: 50°C	MADE IN CHINA
輸入事業者: 日本XX株式会社	

Copy of Label

Photograph



Fig. 1

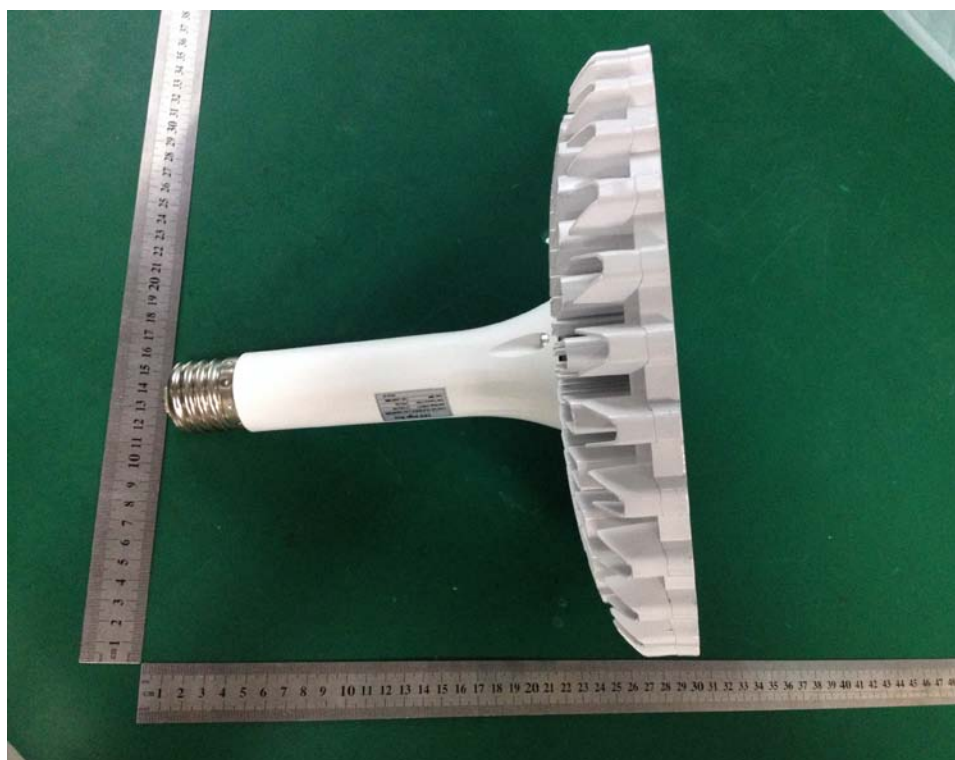


Fig.2



Fig.3



Fig.4



Fig.5



Fig.8



Fig.9



Fig.10



Fig.11



Fig.11