



TEST REPORT
IEC 60598-2-4
Luminaires, Part 2: Particular requirements
Section 4: Portable general purpose luminaires

Report Number.....: AOC241210002S

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Name of Testing Laboratory preparing the Report.....: Shenzhen AOCE Electronic Technology Service Co., Ltd
Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Applicant's name.....: tectake GmbH

Address.....: Tauberweg 41,D-97999 Igersheim Germany

Test specification:

Standard.....: ☒ EN 60598-2-4:2018
☒ EN IEC 60598-1:2021+A11:2022
☒ European Group Differences And National Differences

Test procedure.....: Type testing

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

Test Report Form No.....: IEC60598_2_4H

Test Report Form(s) Originator.....: UL(US)

Master TRF.....: 2020-02-14

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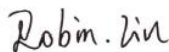
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Test item description..... :	TABLE LAMP	
Trade Mark..... :		
Manufacturer..... :	Anderson Lighting Co.,Ltd. 3rd Floor, Building 2, No.17 Yongxing North Road,Henglan Town, Zhongshan City,Guangdong Province, China.	
Model/Type reference..... :	406004, 406005, 406006, 406075, 406076, MT240087CH, MT240087SN, MT240087BR, MT240083, MT240084	
Ratings..... :	220-240 V~, 50/60Hz, Max.60 W, E27, IP 20, Class II, ta:25°C	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	Testing Laboratory:	Shenzhen AOCE Electronic Technology Service Co., Ltd
	Testing location/ address..... :	Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China
	Tested by (name, function, signature)..... :	ZhiCong Xian Technical Engineer 
	Approved by (name, function, signature)... :	Robin Liu Technical Manager 
☐	Testing procedure: CTF Stage 1:	N/A
	Testing location/ address..... :	
	Tested by (name, function, signature)..... :	
	Approved by (name, function, signature)... :	
☐	Testing procedure: CTF Stage 2:	N/A
	Testing location/ address..... :	
	Tested by (name + signature)..... :	
	Witnessed by (name, function, signature).. :	
	Approved by (name, function, signature)... :	
☐	Testing procedure: CTF Stage 3:	N/A
☐	Testing procedure: CTF Stage 4:	N/A
	Testing location/ address..... :	
	Tested by (name, function, signature)..... :	
	Witnessed by (name, function, signature).. :	
	Approved by (name, function, signature)... :	
	Supervised by (name, function, signature) :	

List of Attachments (including a total number of pages in each attachment):**Attachment No.1:** European Group Differences And National Differences**Attachment No.2:** Clause 13 of IEC 62031**Attachment No.3:** Photo document.**Summary of testing:****Tests performed (name of test and test clause):**

- All testing were performed on model 406004
- EN 60598-2-4:2018
- EN IEC 60598-1:2021+A11:2022

Testing location:

Shenzhen AOCE Electronic Technology Service Co., Ltd
 Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District, Shenzhen, Guangdong, China

Summary of compliance with National Differences (List of countries addressed):

N/A

Statement concerning the uncertainty of the measurement systems used for the tests

☐ Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:

Procedure number, issue date and title: N/A

☒ Statement not required by the standard used for type testing

Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

**Remark:**

1. The marking plate of others models are identical with models 406004., other model only model name and ratings are different.
2. The above mark is the minimum requirements required by the safety standard. For the final production, the additional marks which do not give rise to misunderstanding may be added.
3. The height of graphical symbols shall not be less than 5 mm
4. The height of letters shall not be less than 2 mm.

Test item particulars..... :	
Classification of installation and use.....:	Portable luminaires used indoor
Supply Connection.....:	Supply cords with plug
Protection Class.....:	Class II
Degree of Protection..... :	IP 20
Possible test case verdicts:	
- test case does not apply to the test object..... :	N/A
- test object does meet the requirement..... :	P (Pass)
- test object does not meet the requirement..... :	F (Fail)
Testing..... :	
Date of receipt of test item..... :	2024-11-26
Date (s) of performance of tests..... :	2024-11-26 to 2025-06-13
General remarks:	
The tested sample(s) and the sample information are provided by the client. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Note: EN Group Differences together with National Differences and Special National Conditions, if any, are in the Appendix to the main body of this TRF. Throughout this report a ☐ comma / ☒ point is used as the decimal separator. The test report only allows to be revised only within the report defined retention period unless standard or regulation was withdrawn or invalid. When determining for test conclusion, measurement uncertainty of tests has been considered. Clause numbers between brackets refer to clauses in IEC 60598-1. Note: clauses marked “*” not included in CNAS scope.	
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	☐ Yes ☒ Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies)..... :	Anderson Lighting Co.,Ltd. 3rd Floor, Building 2, No.17 Yongxing North Road,Henglan Town, Zhongshan City,Guangdong Province, China.

General product information and other remarks:

1. Suitable for direct mounting on normally flammable surfaces.
2. Only the most unfavorable results are recorded in this report.
3. Unless otherwise specified, 405203, 405199 and 405241 were chosen as representative model to perform all tests.
4. Model list:

Model name 1	Model name 2	Rated wattage	Photo
406004	MT240087CH	E27,Max 60W	
406005	MT240087SN	E27,Max 60W	
406006	MT240087BR	E27,Max 60W	

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.4 (0)	GENERAL TEST REQUIREMENTS		P
4.4 (0.3)	More sections applicable.....:	Yes ☐ No ☒ Section/s:	—
4.4 (0.5)	Components	(see Annex 1)	—
4.4 (0.7)	Information for luminaire design in light sources standards		—
4.4 (0.7.2)	Light source safety standard	EN 60432-1 & EN 62560	—
	Luminaire design in the light source safety standard		P
4.5 (2)	CLASSIFICATION OF LUMINAIRES		P
4.5 (2.2)	Type of protection	Class II	P
4.5 (2.3)	Degree of protection.....	IP 20	P
4.5 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—
4.5.1 (-)	Ordinary luminaire.....	Yes ☐ No ☒	—
4.5.2 (-)	Portable luminaire for outdoor use.....	Yes ☐ No ☒	—
	Classified IPX4 or higher		N/A
4.5.3 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces.....:	Yes ☒ No ☐	—
4.6 (3)	MARKING		P
4.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
4.6 (3.3)	Additional information		P
	Language of instructions		P
4.6 (3.3.1)	Combination luminaires		N/A
4.6 (3.3.2)	Nominal frequency in Hz		P
4.6 (3.3.3)	Operating temperature		N/A
4.6 (3.3.5)	Wiring diagram		N/A
4.6 (3.3.6)	Special conditions		N/A
4.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
4.6 (3.3.8)	Limitation for semi-luminaires		N/A
4.6 (3.3.9)	Power factor and supply current		N/A
4.6 (3.3.10)	Suitability for use indoors		P

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.6 (3.3.11)	Luminaires with remote control		N/A
4.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
4.6 (3.3.13)	Specifications of protective shields		N/A
4.6 (3.3.14)	Symbol for nature of supply		P
4.6 (3.3.15)	Rated current of socket outlet		N/A
4.6 (3.3.16)	Rough service luminaire		N/A
4.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		P
4.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
4.6 (3.3.19)	Protective conductor current in instructions, if applicable		N/A
4.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
4.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		N/A
	Cautionary symbol		N/A
4.6 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
4.6 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
4.6 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
4.6 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
4.6.1 (-)	Luminaire not suitable for outdoor application		N/A
	Required symbol		N/A
	Information in the instructions		N/A
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire		N/A
	Maximum power rating marked		N/A
	Position of the marking		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4)	CONSTRUCTION		P
4.7 (4.2)	Components replaceable without difficulty		P
4.7 (4.3)	Wireways smooth and free from sharp edges		P
4.7 (4.4)	Lampholders		P
4.7 (4.4.1)	Integral lampholder		P
4.7 (4.4.2)	Wiring connection		N/A
4.7 (4.4.3)	Lampholder for end-to-end mounting		N/A
4.7 (4.4.4)	Positioning		N/A
	- pressure test (N)		—
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)	E27, 2.0Nm	—
	After test the lampholder have not moved from its position and show no permanent deformation		P
4.7 (4.4.5)	Peak pulse voltage		N/A
4.7 (4.4.6)	Centre contact		N/A
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
4.7 (4.4.8)	Lamp connectors		N/A
4.7 (4.4.9)	Caps and bases correctly used		N/A
4.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
4.7 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
4.7 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
4.7 (4.7)	Terminals and supply connections		N/A
4.7 (4.7.1)	Contact to metal parts		N/A
4.7 (4.7.2)	Test 8 mm live conductor		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Test 8 mm earth conductor		N/A
4.7 (4.7.3)	Terminals for supply conductors		N/A
4.7 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
4.7 (4.7.4)	Terminals other than supply connection		N/A
4.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
4.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
4.7 (4.8)	Switches		P
	- adequate rating		P
	- adequate fixing		P
	- polarized supply		N/A
	- compliance with IEC 61058-1 for electronic switches		P
4.7 (4.9)	Insulating lining and sleeves		N/A
4.7 (4.9.1)	Retainment		N/A
	Method of fixing.....: As integral parts		N/A
4.7 (4.9.2)	Insulated linings and sleeves:		N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C).....:		N/A
4.7 (4.10)	Double or reinforced insulation		P
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Interference suppression capacitors according to IEC 60384-14		N/A
4.7 (4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A
4.7 (4.10.3)	Retainment of insulation:		N/A
	- fixed		N/A
	- unable to be replaced; luminaire inoperative		N/A
	- sleeves retained in position		N/A
	- lining in lampholder		N/A
4.7 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
4.7 (4.11)	Electrical connections and current-carrying parts		P
4.7 (4.11.1)	Contact pressure		P
4.7 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
4.7 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
4.7 (4.11.4)	Material of current-carrying parts		P
4.7 (4.11.5)	No contact to wood or mounting surface		P
4.7 (4.11.6)	Electro-mechanical contact systems		N/A
4.7 (4.12)	Screws and connections (mechanical) and glands		N/A
4.7 (4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
4.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm)..... :		N/A
	- lampholder; torque (Nm)..... :		N/A
	- push-button switches; torque 0,8 Nm..... :		N/A
4.7 (4.12.5)	Screwed glands; force (Nm)..... :		N/A
4.7 (4.13)	Mechanical strength		P
4.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)..... :		N/A
	- other parts; energy (Nm)..... :	0.5 Nm	P
	1) live parts		N/A
	2) linings		N/A
	3) protection		N/A
	4) covers		N/A
4.7 (4.13.3)	Straight test finger		N/A
4.7 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
4.7 (4.13.6)	Tumbling barrel		N/A
4.7 (4.14)	Suspensions, fixings and means of adjusting		N/A
4.7 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm)..... :		N/A
	D) load track- mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		—
	Metal rod. diameter (mm)		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Fixed luminaire or independent control gear without fixing devices		N/A
4.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		—
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
4.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....		N/A
	- strands broken.....		N/A
	- electric strength test afterwards		N/A
4.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
4.7 (4.14.5)	Guide pulleys		N/A
4.7 (4.14.6)	Strain on socket-outlets		N/A
4.7 (4.15)	Flammable materials		P
	- glow-wire test 650°C.....	See Test Table 4.15 (13.3.2)	N/A
	- spacing ≥30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
4.7 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear.....	(compliance with Section 12)	P
4.7 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
4.7 (4.16.2)	Thermal protection:		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- in lamp control gear		N/A
	- external		N/A
	- fixed position		N/A
	- temperature marked lamp control gear		N/A
4.7 (4.16.3)	Design to satisfy the test of 12.6.....:	(see clause 12.6)	N/A
4.7 (4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
4.7 (4.18)	Resistance to corrosion		N/A
4.7 (4.18.1)	- rust-resistance		N/A
4.7 (4.18.2)	- season cracking in copper		N/A
4.7 (4.18.3)	- corrosion of aluminium		N/A
4.7 (4.19)	Ignitors compatible with ballast		N/A
4.7 (4.20)	Rough service vibration		N/A
4.7 (4.21)	Protective shield		N/A
4.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps		N/A
	Shield of glass if tungsten halogen lamps		N/A
4.7 (4.21.2)	Particles from a shattering lamp not impair safety		N/A
4.7 (4.21.3)	No direct path		N/A
4.7 (4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment.....:	See Test Table 4.15 (13.3.2)	N/A
4.7 (4.22)	Attachments to lamps not cause overheating or damage		N/A
4.7 (4.23)	Semi-luminaires comply Class II		N/A
4.7 (4.24)	Photobiological hazards		P
4.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)		N/A
4.7 (4.24.2)	Retinal blue light hazard		N/A
	Class of risk group assessed according to IEC/TR 62778	RG 0	—
	Luminaires with E_{thr} :		N/A
	a) Fixed luminaires		N/A
	- distance x m, borderline between RG1 and RG2... :		N/A
	- marking and instruction according 3.2.23		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	b) Portable and handheld luminaires		N/A
	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12 not exceed RG1 at 200 mm according to IEC/62778		N/A
4.7 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
4.7 (4.26)	Short-circuit protection		N/A
4.7 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
4.7 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
4.7 (4.27)	Terminal blocks with integrated screwless earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
4.7 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material (°C) :		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
4.7 (4.29)	Luminaires with non-replaceable light source		N/A
	Not possible to replace light source		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Live part not accessible after parts have been opened by hand or tools		N/A
4.7 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with “caution, electric shock risk” symbol:		N/A
	Minimum two fixing means		N/A
4.7 (4.31)	Insulation between circuits		P
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		P
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N/A
4.7 (4.31.1)	SELV circuits		N/A
	Used SELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of SELV circuits from LV supply		N/A
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage $\leq$ ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.3)	Other circuits		P
	Other circuits insulated from accessible parts according Table X.1		P
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
4.7 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
4.7.1 (-)	Insulation not damaged when moving, adjusting or placing on support		P
4.7.2 (-)	Wiring fixed, to avoid rubbing		N/A
	Carrier or clips of insulation material or with insulating lining		N/A
4.7.3 (-)	Luminaire not overturn at angle 6°		N/A
	Outdoor use luminaire not overturn at an angle 15°		N/A
4.7.4 (-)	Candlestick luminaires with E5 or E10 lampholders provided with a switch		N/A
	Switch part of the luminaire or within 300 mm of the luminaire if with cord		N/A
4.7.5 (-)	Voltage not exceeding 23.6 V for E5 lampholders		N/A
	E10 lampholder voltage:		N/A
	- not exceeding 60 V for series connection) or		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- not exceeding 250 V for parallel connections		N/A
	Maximum rated wattage not exceed 100 W		N/A
4.7.6 (-)	Portable luminaires for outdoor use tails not provided		N/A
4.7.7 (-)	Portable luminaires for outdoor use, cable entries		N/A
4.7.8 (-)	Portable luminaires for outdoor use, socket-outlet degree of protection at least same as the luminaire but not less than IPX4.		N/A
	Degree of protection maintained with or without a plug inserted into the socket-outlet.		N/A
	Class II luminaires, mains socket-outlets comply with the standard and only allow connection to Class II luminaires		N/A
	Class I luminaires, mains socket-outlets comply with the standard and only allow connection to Class I or Class II luminaires		N/A
4.7.9 (-)	Portable luminaires for outdoor use, lampholders and plugs are of material resistant to tracking		N/A
	Compliance to clause 13.4		N/A
4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1).....:	Category II ☒ Category III ☐	—
4.8 (11.2.1)	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
4.7 (11.2.2)	Creepage distances for frequency up to 30 kHz.....:	See Test Table 4.7 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with $\hat{U}_{OUT}$ and f_{UOUT} according IEC 61347-1, clause 7.1, item w).....:	See Test Table 4.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347.....:	See Test Table 4.7 (11.2) II	N/A
4.7 (11.2.3)	Clearances for frequency up to 30 kHz.....:	See Test Table 4.7 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_P:	See Test Table 4.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347.....:	See Test Table 4.7 (11.2) II	N/A
4.9 (7)	PROVISION FOR EARTHING		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.9 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A
	Resistance < 0,5 Ω:		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.		N/A
4.9 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
4.9 (7.2.5)	Earth terminal integral part of connector socket		N/A
4.9 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
4.9 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
4.9 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
4.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
4.9 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A
4.10 (14)	SCREW TERMINALS		N/A
	Separately approved; component list.....: (see Annex 1)		N/A
	Part of the luminaire.....: (see Annex 3)		N/A
4.10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
	Separately approved; component list.....: (see Annex 1)		N/A
	Part of the luminaire.....: (see Annex 4)		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5)	EXTERNAL AND INTERNAL WIRING		N/A
4.11 (5.2)	Supply connection and external wiring		N/A
4.11 (5.2.1)	Means of connection.....:		N/A
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 23.6 V a.c./60 V d.c. or protected from outdoor environment		N/A
4.11 (5.2.2)	Type of cable.....:		N/A
	Nominal cross-sectional area (mm ²).....:		N/A
	Cables equal to IEC 60227 or IEC 60245		N/A
4.11 (5.2.3)	Type of attachment, X, Y or Z.....:		N/A
4.11 (5.2.5)	Type Z not connected to screws		N/A
4.11 (5.2.6)	Cable entries:		N/A
	- suitable for introduction		N/A
	- adequate degree of protection		N/A
4.11 (5.2.7)	Cable entries through rigid material have rounded edges		N/A
4.11 (5.2.8)	Insulating bushings:		N/A
	- suitably fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- tubes or guards made of insulating material		N/A
4.11 (5.2.9)	Locking of screwed bushings		N/A
4.11 (5.2.10)	Cord anchorage:		N/A
	- covering protected from abrasion		N/A
	- clear how to be effective		N/A
	- no mechanical or thermal stress		N/A
	- no tying of cables into knots etc.		N/A
	- insulating material or lining		N/A
4.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
4.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		N/A
4.11 (5.2.10.3)	Tests:		N/A
	- impossible to push cable; unsafe		N/A
	- pull test: 25 times; pull (N)..... :		N/A
	- torque test: torque (Nm)..... :		N/A
	- displacement ≤ 2 mm		N/A
	- no movement of conductors		N/A
	- no damage of cable or cord		N/A
	- function independent of electrical connection		N/A
4.11 (5.2.11)	External wiring passing into luminaire		N/A
4.11 (5.2.12)	Looping-in terminals		N/A
4.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
4.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
4.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector according relevant IEC standard		N/A
4.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
4.11 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
4.11 (5.3)	Internal wiring		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5.3.1)	Internal wiring of suitable size and type		N/A
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A)..... :		N/A
	- temperatures..... : (see Annex 2)		N/A
	Green- yellow for earth only		N/A
4.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		N/A
	Cross-sectional area (mm ²)..... :		N/A
	Insulation thickness		N/A
	Extra insulation added where necessary		N/A
4.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Cross-sectional area (mm ²)..... :		N/A
4.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A
4.11 (5.3.1.4)	Conductors without insulation		N/A
4.11 (5.3.1.5)	SELV current-carrying parts		N/A
4.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
4.11 (5.3.2)	Sharp edges etc.		N/A
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		N/A
4.11 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
4.11 (5.3.4)	Joints and junctions effectively insulated		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5.3.5)	Strain on internal wiring		N/A
4.11 (5.3.6)	Wire carriers		N/A
4.11 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
4.11 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A
4.11.1 (-)	Indoor use luminaire The requirement of one part of cord anchorage to be fixed to the luminaire not applied for table lamps of glass or ceramic		—
4.11.2 (-)	Class I and class II indoor use Luminaire with a mass less than 1 kg the current $\leq 2,5$ A and cable ≤ 2 m and conductor $\geq 0,5$ mm ²		N/A
4.11.3 (-)	Terminals, a cord anchorage and an inlet opening for the proper connection of the flexible cable or cord if for outdoor use and delivered without a flexible cable or cord and a plug.		N/A
4.11.4 (-)	Portable luminaires for outdoor use Insulation class I and class II, non-detachable flexible cables or cords at least type 245 IEC 57.		N/A
4.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
4.12 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		N/A
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		N/A
	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires		N/A
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Insulation lacquer not reliable		P
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
4.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		P
4.12 (8.2.3.a)	Class II luminaire:		N/A
	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement		N/A
	- glass protective shields not used as supplementary insulation		N/A
4.12 (8.2.3.b)	BC lampholder of metal in class I luminaires is earthed		N/A
4.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load (V).....:		N/A
	- no-load voltage (V).....:		N/A
	- touch current if applicable (mA)		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage (V)		N/A
	Class III luminaire only for connection to SELV		N/A
	Class III luminaire not provided with means for protective earthing		N/A
4.12 (8.2.4)	Portable luminaire have protection independent of supporting surface		N/A
4.12 (8.2.5)	Compliance with the standard test finger or relevant probe		N/A
4.12 (8.2.6)	Covers reliably secured		N/A
4.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A
4.12. (-)	Class I luminaire with bayonet lampholder:		N/A
	1) cap not accessible with test finger		N/A
	2) metal lampholder is earthed		N/A

4.13 (12)	ENDURANCE TEST AND THERMAL TEST		P
4.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) specified in 4.13		—
4.13 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B..... :	See Annex 2 for lamp used	—
	Controlgear if separate and not supplied..... :	See Annex 2 for controlgear used	—
4.13 (12.3)	Endurance test:		P
	a) mounting-position..... :	Normal mounting	—
	b) test temperature (°C)..... :		—
	c) total duration (h)..... :		—
	d) if not equipped with controlgear, constant voltage/current (V) or (A)		—
	e) luminaire ceases to operate		—
4.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
4.13 (12.4)	Thermal test (normal operation)..... :	(see Annex 2)	P
4.13 (12.5)	Thermal test (abnormal operation)..... :	(see Annex 2)	N/A
4.13 (12.6)	Thermal test (failed lamp control gear condition):		N/A
4.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		—
	- case of abnormal conditions..... :		—

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un		—
	- measured mounting surface temperature (°C) at 1,1 Un.....		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A
4.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions.....		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C).....		N/A
	- track-mounted luminaires		N/A
4.13 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
4.13 (12.7.1)	Luminaire without temperature sensing control		N/A
4.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions.....		—
	- Ballast failure at supply voltage (V)		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions.....		—
	- measured winding temperature (°C): at 1,1 Un.....		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....		—
	- calculated temperature of fixing point/exposed part (°C).....		—
	Ball-pressure test.....	See Table 4.15 (13.2.1)	N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions.....:		—
	- measured winding temperature (°C): at 1,1 Un.....:		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....:		—
	- calculated temperature of fixing point/exposed part (°C).....:		—
	Ball-pressure test.....:	See Table 4.15 (13.2.1)	N/A
4.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions.....:		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
4.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link.....:	Yes ☐ No ☐	—
	- manual reset cut-out.....:	Yes ☐ No ☐	—
	- auto reset cut-out.....:	Yes ☐ No ☐	—
	- case of abnormal conditions.....:		—
	- highest measured temperature of fixing point/exposed part (°C):.....:		—
	Ball-pressure test.....:	See Table 4.15 (13.2.1)	N/A
4.13 (-)	Indoor use luminaire, Test overturned position (overturns < 15°)		P
4.14 (9)	RESISTANCE TO DUST AND MOISTURE		P
4.14 (-)	If IP > IP 20 the order of tests as specified in clause 4.12		N/A
4.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		N/A
	- classification according to IP.....:		—
	- mounting position during test.....:		—
	- fixing screws tightened; torque (Nm).....:		—
	- tests according to clauses.....:		—
	- electric strength test afterwards		P
	a) no deposit in dust-proof luminaire		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or on insulation where it could become a hazard		N/A
	c.1) For luminaires without drain holes – no water entry		P
	c.2) For luminaires with drain holes – no hazardous water entry		N/A
	d) no water in watertight or pressure watertight luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	e) no entry into enclosure (IP 3X and IP 4X)		N/A
	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)		N/A
	f) no trace of water on part of lamp requiring protection from splashing water		N/A
	g) no damage of protective shield or glass envelope		P
4.14 (9.3)	Humidity test 48 h		P
4.14 (-)	Portable luminaire for outdoor use tested in the most unfavourable of the overturned positions likely to occur		N/A
4.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
4.15 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ).....		—
	SELV		P
	- between current-carrying parts of different polarity :		P
	- between current-carrying parts and mounting surface.....		P
	- between current-carrying parts and metal parts of the luminaire.....		P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts.....		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		N/A
	- between live parts of different polarity.....		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts and mounting surface.....:		N/A
	- between live parts and metal parts..... :		N/A
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5		N/A
4.15 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V).....:		N/A
	SELV		P
	- between current-carrying parts of different polarity :		P
	- between current-carrying parts and mounting surface.....:		P
	- between current-carrying parts and metal parts of the luminaire..... :		P
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5		N/A
	Other than SELV		P
	- between live parts of different polarity..... :	1480 V	P
	- between live parts and mounting surface.....:	1480 V	P
	- between live parts and metal parts..... :	1480 V	P
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5		N/A
4.15 (10.3)	Touch current or protective conductor current (mA):.		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		N/A
4.16 (13.2.1)	Ball-pressure test..... :	See Test Table 4.15 (13.2.1)	N/A
4.16 (13.3.1)	Needle-flame test (10 s)..... :	See Test Table 4.15 (13.3.1)	N/A
4.16 (13.3.2)	Glow- wire test (650°C)..... :	See Test Table 4.15 (13.3.2)	N/A
4.16 (13.4)	Proof tracking test (IEC 60112)..... :	See Test Table 4.15 (13.4)	N/A

IEC 60598-2-4							
Clause	Requirement + Test				Result - Remark		Verdict
4.7 (11.2)	TABLE I: Creepage distances and clearances (5Vdc, no request)						P
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						P
	Applicable part of IEC 60598-1 Table 11.1A*, 11.1B* and 11.2*						P
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	> 1.5	1.5	11.1A	> 2.5	2.5	11.1B
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage if applicable (kV)					-		—
Supplementary information: Between L and N							
Distance 2:	R	> 3.0	3.0	11.1A	> 5.0	5.0	11.1B
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage if applicable (kV)					-		—
Supplementary information: Between Live part and accessible part							
Distance 3:	R	> 3.0	3.0	11.1A	> 5.0	5.0	11.1B
Working voltage (V)..... :					240 V		—
PTI..... :					< 600 ☒ ≥ 600 ☐		—
Pulse voltage if applicable (kV)					-		—
Supplementary information: Between Live part and mounting surface							

** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

4.7 (11.2)	TABLE II: Creepage distances and clearances						N/A
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:							
Working voltage (V)..... :							—
Frequency if applicable (kHz)..... :							—
PTI..... :					< 600 ☐ ≥ 600 ☐		—

IEC 60598-2-4							
Clause	Requirement + Test	Result - Remark	Verdict				
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)			—				
Supplementary information:							
Distance 2:							
Working voltage (V).....			—				
Frequency if applicable (kHz).....			—				
PTI.....		< 600 ☐ ≥ 600 ☐	—				
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)			—				
Supplementary information:							
Distance 3:							
Working voltage (V).....			—				
Frequency if applicable (kHz).....			—				
PTI.....		< 600 ☐ ≥ 600 ☐	—				
Peak value of the working voltage $\hat{U}_{out}$ if applicable (kV)			—				
Supplementary information: ** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.							

4.15a (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics	N/A
Allowed impression diameter (mm)		—
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)
		Impression diameter (mm)
Supplementary information:		

4.15b (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)	N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)
		Ignition of specified layer Yes/No
		Duration of burning (tb) (s)
		Verdict

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

4.15c (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)				N/A
Glow wire temperature :					—
Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict	

Supplementary information:

4.15d (13.4)	TABLE: Proof tracking test (IEC 60112)					N/A
Test voltage PTI :			175 V			—
Object/ Part No./ Material		Manufacturer/ trademark	Withstand 50 drops without failure on three places or on three specimens			Verdict

Supplementary information:

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1		TABLE: Critical components information					P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity 1)	
Plug	B	Dongguan Power-Sun Industry Co., Ltd	BCP-012	AC 250 V, 2.5 A	EN 50075	VDE 40033684	
Alternative	D	Kenic Electronic mfg Co., Ltd.	KE-21	AC 250 V, 2.5 A	EN 50075	VDE 97182	
Alternative	D	Jiangmen Jiaqixing House Appliance Industry Co., Ltd.	JQX-201	AC 250 V	EN 50075	VDE 40045993	
Alternative	D	Hunan Aomeng Electrical Equipment Co.,Ltd.	AM-008	AC 250 V	EN 50075	VDE 400150046	
Alternative	D	DONGGUAN YUXUAN ELECTRONIC TECHNOLOGY CO LTD	YX-008	AC 250 V	EN 50075	VDE 40056842	
Alternative	D	Zhongshan Henglan Boyi Electrical Appliance Factory	BY-101	AC 250 V, 2.5 A	EN 50075	VDE	
Alternative	D	Zhongshan Guzhen Tengxiang Wires & Cables Factory	GZ-2S	AC 250 V, 2.5 A	EN 50075	VDE	
Alternative	D	Guangdong Yongrui Cable Technology Co.,Ltd	YR-101	AC 250 V, 2.5 A	EN 50075	VDE	
Alternative	D	Zhongshan Xiaolan Qiangl Electric Factory Co.,Ltd.	QL-VA1	AC 250 V, 2.5 A	EN 50075	VDE	

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Shenzhen Dongju Wire & Cable Co.,Ltd	DJ-011	AC 250 V, 2.5 A	EN 50075	VDE
Alternative	D	Zhongshan Guzhen Jinma Lighting Electrical Accessories Factory	JM-15	AC 250 V, 2.5 A	EN 50075	VDE
Alternative	D	Toong Yean Plastic Ind. Co.,Ltd.	TY-011	AC 250 V, 2.5 A	EN 50075	VDE
Alternative	D	Yu Jia Wire Electronics Co.,Ltd.	YJ-5803	AC 250 V, 16 A	EN 50075	VDE
Alternative	D	Dongguan Yiteng Electric Wire Co.,Ltd.	YH-009A	AC 250 V, 2.5 A	EN 50075	VDE
Alternative	D	Dongguan Yiteng Electric Wire Co.,Ltd.	YH-009B	AC 250 V, 2.5 A	EN 50075	VDE
Alternative	D	Dongguan Ubill Electrical Co.,Ltd.	YG-101	AC 250 V, 2.5 A	EN 50075	VDE 40049728
Alternative	D	Dongguan Poweryuan Wire Industries Co.,Ltd	LY-807	AC 250 V, 2.5 A	EN 50075	VDE 40039712
Alternative	D	Guangdong KaiHua Electric Appliance Co.,Ltd	KH-9903B	AC 250 V, 2.5 A	EN 50075	VDE 40024149
Alternative	D	Unirise Electric Wire & Cable Co.. Ltd.	UE-211	AC 250 V, 2.5 A	EN 50075	VDE 40014452

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Ardi S.p.A	2130	AC 250 V, 2.5 A	EN 50075	VDE 40028947
Alternative	D	Dongguan Kaixiang Electric Co., Ltd.	KX-005	AC 250 V, 2.5 A	EN 50075	VDE 40045754
Alternative	D	DONGGUAN CONGHAO ELECTRONIC CO., LTD	CH-024	AC 250 V, 2.5 A	EN 50075	VDE 40048812
Alternative	D	VA ELECTRICS LIMITED	1063	AC 250 V, 2.5 A	EN 50075	ENEC 05 DEKRA
Alternative	D	Guangdong KaiHua Electric Appliance Co.,Ltd	KH-9903	AC 250 V, 2.5 A	EN 50075	VDE 138563
Alternative	D	Shenzhen Rukang Eletrical Co,Ltd.	RK-020	AC 250 V, 2.5 A	EN 50075	VDE 40049123
Alternative	D	Dongguan Yisheng Electrical Appliance Industry Co, Ltd.	YS-001	AC 250 V, 2.5 A	EN 50075	VDE 40046089
Alternative	D	DONG GUAN STAR THAI ELECTRIC CO.,LTD	HL-801	AC 250 V, 2.5 A	EN 50075	VDE 40042638
Alternative	D	Dongguan Tongjun Electronics Technology Co.,Ltd.	TJ-181	AC 250 V, 2.5 A	EN 50075	VDE 40047372

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Zhongshan Hengian Jiaxing Lighling Appliance Factory	JX-05	AC 250 V, 2.5 A	EN 50075	VDE 40045413
Alternative	D	Jhi Wei Electric Wire & Cable Co. Ltd	AM-008	AC 250 V, 2.5 A	EN 50075	VDE 40005490
Alternative	D	Dong Guan Yuan Hui Electric Co.,Ltd	YH-A01	AC 250 V, 2.5 A	EN 50075	VDE 40042931
Alternative	D	Zhongshan Zhongguang Wire Co., Ltd	ZG-06	AC 250 V, 2.5 A	EN 50075	VDE 40054560
Alternative	D	Zhongshan Hongyun Electrical Appliance Co. Ltd.	HY-008	AC 250 V, 2.5 A	EN 50075	VDE 40032414
Alternative	D	DONG GUAN STAR THAI ELECTRIC CO.,LTD	HL-802	AC 250 V, 16 A	VDE 0620-2-1	VDE 40047707
Alternative	D	DONG GUAN STAR THAI ELECTRIC CO.,LTD	HL-803	AC 250 V, 16 A	VDE 0620-2-1	VDE 40042637
Alternative	D	Luen Tai Ip's Electrical (Shenzhen)	8191;9248	AC 250 V, 13 A	BS 1363 Parts 1-5	KM 40790
Alternative	D	Dongguan Ubill Electrical Co.,Ltd	8802	AC 250 V, 13 A	BS 1363 Parts 1-5	Intertek ASTA Diamond Mark 805
Alternative	D	Dongguan Ubill Electrical Co.,Ltd	UBL 8808 & AP-400A	AC 240 V, 3 A	BS 1362:1973	Intertek ASTA

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Supply cord	B	Zhongshan Dingtai Electric Co., Ltd	H03VV-F 2...3 x 0.5...0.75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40048594
Alternative	D	Hunan Aomeng Electrical Equipment Co.,Ltd	H03VVH2-F 2 x 0.75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 134644
Alternative	D	Zhongshan Nantou Hongyun Electric Appliance Accessories Factory	H03VVH2-F 2 x 0.75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40041433
Alternative	D	Guangdong Jiaqixing Electric Tech Co., Ltd.	H03VVH2-F 2 x 0,75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40045567
Alternative	D	Dong Guan Yuan Hui Electric Co.Ltd	H03VVH2-F 2 x 0,75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40042368
Alternative	D	Zhongshan Ke Jin Power Supply Cord Co.Ltd	H03VVH2-F 2 x 0,75 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40013045
Alternative	D	Guangdong Jiaqixing Electric Tech. Co., Ltd.	H03VV-F 2...3 x 0,5...0,75 mm ² H03VVH2-F 2 x 0,5...0,75 mm ² H05VV-F 2...3 x 0,75...1,5 mm	0.75 mm ²	EN 50525-2-11	VDE 40045567
Alternative	D	Zhongshan City Jindong Wire Factory	H03VV-F 2...3 x 0,5...0,75 mm ² H03VVH2-F 2 x 0,5...0,75 mm ² H05VV-F	0.75 mm ²	EN 50525-2-11	VDE 40049342

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
			2...3 x 0,75...1,5 mm			
Alternative	D	Toong Yean Plastic Ind Co.,LTD	H03VV-F 2...3 x 0,5...0,75 mm ² H03VVH2-F 2 x 0,5...0,75 mm ² H05VV-F 2...3 x 0,75...1,5 mm H05VV-F 2 x 0,75...1,0 mm	0.75 mm ²	EN 50525-2-11	VDE 40024356
Alternative	D	DONGGUAN YUXUAN ELECTRONIC TECHNOLOGY CO LTD	H03VV-F 2...4 x 0,5...0,75 mm ² H03VVH2-F 2 x 0,5...0,75 mm ² H05VV-F 2...5 x 0,75...2,5 mm ²	0.75 mm ²	EN 50525-2-11	VDE 40056230
Alternative	D	Dongguan Ubill Electrical Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40042748
Alternative	D	DONGGUAN YUXUAN ELECTRONIC TECHNOLOGY CO LTD	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40056230
Alternative	D	Sheng Yi Electrical Factory	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40023272

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Dongguan Power- Sun Industry Co., Ltd.	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40033035
Alternative	D	Dongguan Kaixiang Electric Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40044218
Alternative	D	Dongguan Poweryuan Wire Industries Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40038705
Alternative	D	Dongguan Yisheng Electrical Appliance Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40045727
Alternative	D	DONGGUAN CONGH AO ELECTRONIC Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40048199
Alternative	D	Zhongshan Hongyun Electrical Appliance Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40041433
Alternative	D	DongGuan R&G Electric Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40030323
Alternative	D	Shenzhen City Rongkang Electrical Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40047262
Alternative	D	Dongguan Tongjun Electronics Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40046723
Alternative	D	Jiangmen Jiaqixing House Appliance Industry Co.,Ltd.	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40045567

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	KEMP ELECTRIC MFG.CO.LTD.	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40046953
Alternative	D	Zhongshan Weisource Electrical Co., Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40041865
Alternative	D	Zhongshan Hengian Jiaxing Lighting Appliance Factory	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40045131
Alternative	D	Hunan Aomeng Electrical Equipment Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 134644
Alternative	D	Guangdong KaiHua Electric Appliance Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40001903
Alternative	D	Jhi Wei Electric Wire & Cable Co. Ltd.	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40004775
Alternative	D	Dong Guan Yuan Hui Electric Co,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40042368
Alternative	D	Zhongshan Zhongguang Wire Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40054338
Alternative	D	DONG GUAN STAR THAI ELECTRIC Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40041533
Alternative	D	I-Sheng Electric Wre & Cable Co.,Ltd.	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40006070

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Dongguan weishang Photoelectric Technology Co.,Ltd	H03VVH2-F	2x 0,75 mm ²	EN 50525-2-11	VDE 40055583
Cord switch	B	Guangdong Ojun Technology Co., Ltd	OJ-304	2A, 250V, 3A 125V AC	EN 61058-1 EN 61058-2-1	ENEC KEMA-KEUR 4359903.5
Alternative	D	Guangdong Ojun Technology Co., Ltd.	8s.317	2A ,250V ,3A 125V AC	EN 61058-1 EN 61058-2-1	ENEC KEMA-KEUR
Alternative	D	Guangdong Ojun Technology Co., Ltd.	8s.303	2A , 250V ,3A 125V, AC	EN 61058-1 EN 61058-2-1	VDE 40023915
Alternative	D	CJ ENTERPRISE CO.,Ltd	CJLS-304	AC 250V,1E4	EN 61058-1 EN 61058-2-1	TUV SUD
Alternative	D	Openwise Industrial Ltd.	303	AC 250V,1E4, 2 x 2A,T55°C	EN 61058-1 EN 61058-2-1	ENEC 14 Intertek
Alternative	D	Openwise Industrial Ltd.	304	AC 250V,1E4, 2 x 2A,T55°C	EN 61058-1 EN 61058-2-1	ENEC 14 Intertek
Alternative	D	Guangdong Ojun Technology Co., Ltd.	QJ-303	2A ,250V ,T 850°C	EN 61058-1 EN 61058-2-1	DEKRA 35-112799 REV.1
Alternative	D	Guangdong Ojun Technology Co., Ltd.	QJ-304	2A ,250V ,T 850°C	EN 61058-1 EN 61058-2-1	DEKRA 35-112799 REV.2
Alternative	D	Dongguan Xianghui Elec Engineering Materiai Co.,Ltd	XH-303 XH-304	AC 250V,1E4, 2 x 2A,T55°C	EN 61058-1 EN 61058-2-1	ENEC 05 DEKRA

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Guangdong Ojun Technology Co., Ltd.	8s.304	2A ,250V, T850°C	EN 61058-1 EN 61058-2-1	DEKRA 35-112757 REV.2
E27 lampholder	B	JiangMen City Jianghai District Langen Electrical Co., Ltd.	LE-27	4A 250V T210°C	EN60238	VDE 40039762
Alternative	D	Foshan Shunde Feiyang Electrical Appliance Co.,Ltd	FY-F2 FY-F3 FY-F4	2A 250V T210°C	EN60238	VDE 40027366
Alternative	D	Jiang men Jiaqixing House Appliance Industry Co., Ltd.	LFG7A LFG7B LFG7C LFG7D	2A 250V T210°C	EN60238	VDE 40044560
Alternative	D	XIN DA ELECTRICAL LIGHTING ACCESSORY FACTORY	XD-1027 XD1027A XD-1027C	4A 250V T210°C	EN60238	VDE 40042332
Alternative	D	Zhong Shan Yi Hang Electric Co., Ltd.	YH266 YH267 YH268 YH269	2A 250V T210°C	EN60238	VDE 40033010
Alternative	D	Guangdong Jiaqixing Electric Tech Co., Ltd.	A) LFG7A B) LFG7B C) LFG7C	2A 250V T210°C	EN60238	VDE 40044560
Alternative	D	Zhong Shan Yi Hang Electric Co., Ltd.	A) YH266 B) YH267 C) YH268 D) YH269	4A 250V T210°C	EN60238	VDE 40033010
Alternative	D	Yarcin Lighting Technology Co.Ltd	YX78;YX78F; YX78FC; YX79,YX79A	4A 250V T210°C	EN60238	VDE 40013631
Alternative	D	Zhongshan Hengian Boyi Electrical Appliance Factory	BY-271; BY-272	4A 250V T210°C	EN60238	VDE 40040288

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Feiyang Lighting Electric Factory	FY-F2,FY-F3; FY-F4	4A 250V	EN60238	VDE 40027366
Alternative	D	Dong Guan Nuo Bao Xin Plastic Co.,Ltd	270S 270;270F;	4A 250V T210°C	EN60238	VDE 40030292
Alternative	D	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E27-L E27-LB E27-S; E27-S-1; E27-S-2	4A 250V	EN60238	VDE 40033770 VDE 40019138
Alternative	D	Zhongshan Guzhen Yuanben Cable & Plug Factory	YB-2027; YB-2027A; YB-2027B	4A 250V T210°C	EN60238	VDE 40034597
Alternative	D	Xiaolan Town Ruicheng Housekeeping Electrical Appliance	E27-A;E27-B E27-C	4A 250V T165°C	EN60238	VDE 40025119
Alternative	D	Zhongshan Henglan Town Ruicheng Housing Appl. Fittings Fact.	HD78; HD78A HD78B	4A 250V	EN60238	VDE 40024780
Alternative	D	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E27-A2 E27-B2 E27-C2	4A 250V T170°C	EN60238	VDE 40028846
Alternative	D	Foshan City Nanhai Wangming Electric Co.Ltd	WM787; WM788	4A 250V	EN60238	VDE 40033972
Alternative	D	ZhongShan Xiaolan Town Jia Zhan Electric Appliance Factory	E27-L E27-S;E27-S-1	4A 250V T210°C	EN60238	VDE 40019138

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Yacht Electric Lighting Co.,Ltd.	AT757 AT755;AT756 AT758	4A 250V T210°C	EN60238	VDE 40024035
Alternative	D	JiangMen City Jianghai District Langen Electrical Co., Ltd	LE-27B1	4A 250V T210°C	EN60238	VDE 40039762
Alternative	D	Zhongshan Guzhen Shangzheng Lampholder Factory	SZ-2701 SZ-2702 SZ-2703	4A 250V T210°C	EN60238	VDE 40033804
Alternative	D	Zhongshan Henglan Deli Electrical Factory	DL-0027B; DL-0027Q DL-0027G DL-0027BG	4A 250V T210°C	EN60238	VDE 40037035
Alternative	D	Yah Fei Electric Lighting Co., Lid.	YF27-2F12 YF27-2F22 YF27-2F32 YF27-2F42	4A 250V T210°C	EN60238	VDE 134973
Alternative	D	Guangdong Jiaqixing Electric Tech Co, Ltd.	LFG 7B; LFG 7A; LFG 7D LFG 7C;	4A 250V T210°C	EN60238	VDE 134973
Alternative	D	Zhong Shan Yi Hang Electric Co.,Ltd	YH167; YH167; YH166A YH168:YH169	2A 250V T210°C	EN60238	VDE 40032995
Alternative	D	Guangdong Kangrong High-Tech New Material Co.,Ltd	K314H K314G K314F; K314C; K314B K314A	2A 250V T210°C	EN60238	VDE 40028650
Alternative	D	ArdnS.p.A	50S, 60S; 62S;50A: 60A	2A 250V T210°C	EN60238	IMQ EF-587

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	Foshan Shunde Feiyang Electrical Appliance Co.,Ltd	FY-F12 FY-F13;FY-F5	2A 250V T210°C	EN60238	VDE 40028891
Alternative	D	Gao Shi Electrical Appliances Factory	GS5558 GS5557 GS5556. GS5557-1	2A 250V T210°C	EN60238	VDE 40027228
Alternative	D	Yacht Electric Lighting Co. Ltd.	AT707;AT706 AT705;AT708	2A 250V T210°C	EN60238	VDE 40024034
Alternative	D	VA ELECTRICS LIMITED	38;38FC: 38F;39; 39/C;39/L; 39L/2 706	2A 250V T210°C	EN60238	VDE 40024034
Alternative	D	Zhongshan Guzhen Shangzheng Lampholder Factory	SZ. SZ-1401;SZ-1404 1403; SZ-1402	2A 250V T210°C	EN60238	VDE 40033864
Heat-tube shrinkage	B	SHENZHEN WOER HEAT-SHRINKABLE	RSFR-HPF RSFR-H	600 V 125C:VW-1	--	UL E203950
Alternative	D	Wenzhou Huida Plastic Co.,Ltd	HD-1	600 V 125C:VW-1	--	UL E359946
Alternative	D	Wenzhou Huida Plastic Co.,Ltd	HD-2	300 V 125C:VW-1	--	UL E359946
Alternative	D	DONGGUAN SALIPT CO LTD	SALIPT S-901-300	300 V 125C:VW-1	--	UL E209436
Alternative	D	DONGGUAN SALIPT CO LTD	SALIPT S-901-600	600 V 125C:VW-1	--	UL E209436

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	LI YANHUI SHENZHEN LANHAIDAO TRADING COLTD	RSFR-H	600 V 125C:VW-1	--	ULE203950
Alternative	D	SHENZHEN WOLIDA TRADING CO LTD	RSFR-H	600 V 125C:VW-1	--	UL E329530
Alternative	D	DONG GUAN HUANGFENG INSULATION MATERIALS CO.. LTD	HFT-2.HFT- 01	600 V 125C:VW-1	--	ULE236485
Alternative	D	Foshan Dongying Hot Shrink Material Co Ltd	DY-HFT	600 V 125C:VW-1	--	ULE487049
Alternative	D	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	K-102	600 V 125C:VW-1	--	UL E321827
Alternative	D	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	K-102(CB)	300 V 125C:VW-1	--	UL E321827
Alternative	D	SHENZHEN YUHENG SPECIAL MATERIAL TECHNOLOGY CO LTD	HSWT	600 V 125C:VW-1	--	UL E505811
Alternative	D	DONGGUAN SALIPT CO LTD	Ø6 S-901- 600	Φ0.8mm- Φ50mm	--	UL E209436
Alternative	D	GUANGZHOU KAIHENG NEW MATERIAL CO LTD	Ø6 K-102	Φ0.8mm- Φ38mm	--	UL E321827

IEC 60598-2-4						
Clause	Requirement + Test			Result - Remark		Verdict
Alternative	D	SHENZHEN WOLIDA TRADING CO LTD	Ø6 RSFR	Φ0.8mm-Φ38mm	--	UL E329530
Terminal block	C	HEAVY POWER CO LTD	CE-1 CE-2	--	--	UL E113650
Supplementary information: 1) Provided evidence ensures the agreed level of compliance. See OD-CB2039. The codes above have the following meaning: A - The component is replaceable with another one, also certified, with equivalent characteristics B - The component is replaceable if authorised by the test house C - Integrated component tested together with the appliance D - Alternative component						

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12		P
	Type reference.....:	406004	—
	Lamp used.....:	LEDs	—
	Lamp control gear used.....:	-	—
	Mounting position of luminaire.....:	Normal mounting	—
	Supply wattage (W).....:	60 W	—
	Supply current (A).....:	-	—
	Temperatures in test 1 - 4 below are corrected for ta (°C)	25 °C	—
	- abnormal operating mode.....:	-	—
4.12 (12.4)	- test 1: rated voltage.....:		—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....:	1.06×240 V	—

IEC 60598-2-4							
Clause	Requirement + Test				Result - Remark		Verdict
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage..... :						—
	Through wiring or looping-in wiring loaded by a current of A during the test :						—
4.12 (12.5)	Through wiring or looping-in wiring loaded by a current of A during the test :						—
Temperature measurements, (°C)							
Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
lamp contact point	25	-	97.1	-	210	-	-
lampholder rim	25	-	91.7	-	210	-	-
Switch	25	-	26.3	-	55	-	-
Internal wire	25	-	46.2	-	180	-	-
mounting surface	25	-	26.3	-	90	-	-
Supplementary information:							

ANNEX 3	Screw terminals (part of the luminaire)					N/A
(14)	SCREW TERMINALS					
(14.2)	Type of terminal..... :					—
	Rated current (A)..... :					—
(14.3.2.1)	One or more conductors					
(14.3.2.2)	Special preparation					
(14.3.2.3)	Terminal size					
	Cross-sectional area (mm²)..... :					—
(14.3.3)	Conductor space (mm)..... :					
(14.4)	Mechanical tests					
(14.4.1)	Minimum distance					
(14.4.2)	Cannot slip out					
(14.4.3)	Special preparation					

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
(14.4.4)	Nominal diameter of thread (metric ISO thread)..... :	M	
	External wiring		
	No soft metal		
(14.4.5)	Corrosion		
(14.4.6)	Nominal diameter of thread (mm)..... :		
	Torque (Nm)..... :		
(14.4.7)	Between metal surfaces		
	Lug terminal		
	Mantle terminal		
	Pull test; pull (N)..... :		
(14.4.8)	Without undue damage		

ANNEX 4	Screwless terminals (part of the luminaire)	N/A
(15)	SCREWLESS TERMINALS	
(15.2)	Type of terminal..... :	—
	Rated current (A)..... :	—
(15.3.1)	Material	
(15.3.2)	Clamping	
(15.3.3)	Stop	
(15.3.4)	Unprepared conductors	
(15.3.5)	Pressure on insulating material	
(15.3.6)	Clear connection method	
(15.3.7)	Clamping independently	
(15.3.8)	Fixed in position	
(15.3.10)	Conductor size	
	Type of conductor	
(15.5)	Terminals and connections for internal wiring	
(15.5.1)	Mechanical tests	

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples).....:		
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples).....:		
	Insertion force not exceeding 50 N		
(15.5.1.2)	Permanent connections: pull-off test (20 N)		
(15.5.2)	Electrical tests		
	Voltage drop (mV) after 1 h (4 samples).....:		
	Voltage drop of two inseparable joints		
	Number of cycles:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		
(15.6)	Terminals and connections for external wiring		
(15.6.1)	Conductors		
	Terminal size and rating		
15.6.2	Mechanical tests		
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)		
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)		
(15.6.3)	Electrical tests		
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		

(15.6.3.1) (15.6.3.2)	TABLE: Contact resistance test / Heating tests										N/A
	Voltage drop (mV) after 1 h										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop of two inseparable joints										
	Voltage drop after 10th alt. 25th cycle										

IEC 60598-2-4										
Clause	Requirement + Test					Result - Remark				Verdict
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Continued ageing: voltage drop after 10th alt. 25th cycle										
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Continued ageing: voltage drop after 50th alt. 100th cycle										
	Max. allowed voltage drop (mV) :									—
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
Supplementary information:										

Attachment No.1**IEC60598_2_4D ATTACHMENT**

Clause	Requirement + Test	Result - Remark	Verdict
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ATTACHMENT TO TEST REPORT IEC 60598-2-4 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminaires Part 2: Particular requirements Section 4: Portable general purpose luminaires			
Differences according to EN 60598-2-4:1997 used in conjunction with EN 60598-1:2015			
Annex Form No EU_GD_IEC60598_2_4D			
Annex Form Originator OVE			
Master Annex Form 2017-11-10			
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	CENELEC COMMON MODIFICATIONS (EN)		P
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4.5 (3)	MARKING		P
4.5 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package		N/A

4.6 (4)	CONSTRUCTION		N/A
4.6 (4.11.6)	Electro-mechanical contact systems		N/A

4.10 (5)	EXTERNAL AND INTERNAL WIRING		P
4.10 (5.2.1)	Connecting leads		N/A
	- without a means for connection to the supply		N/A
	- terminal block specified		N/A
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
4.10 (5.2.2)	Cables equal to EN 50525		P
	Replace table 5.1 – Supply cord		P

4.12 (12)	ENDURANCE TESTS AND THERMAL TESTS		P
4.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P

Attachment No.2

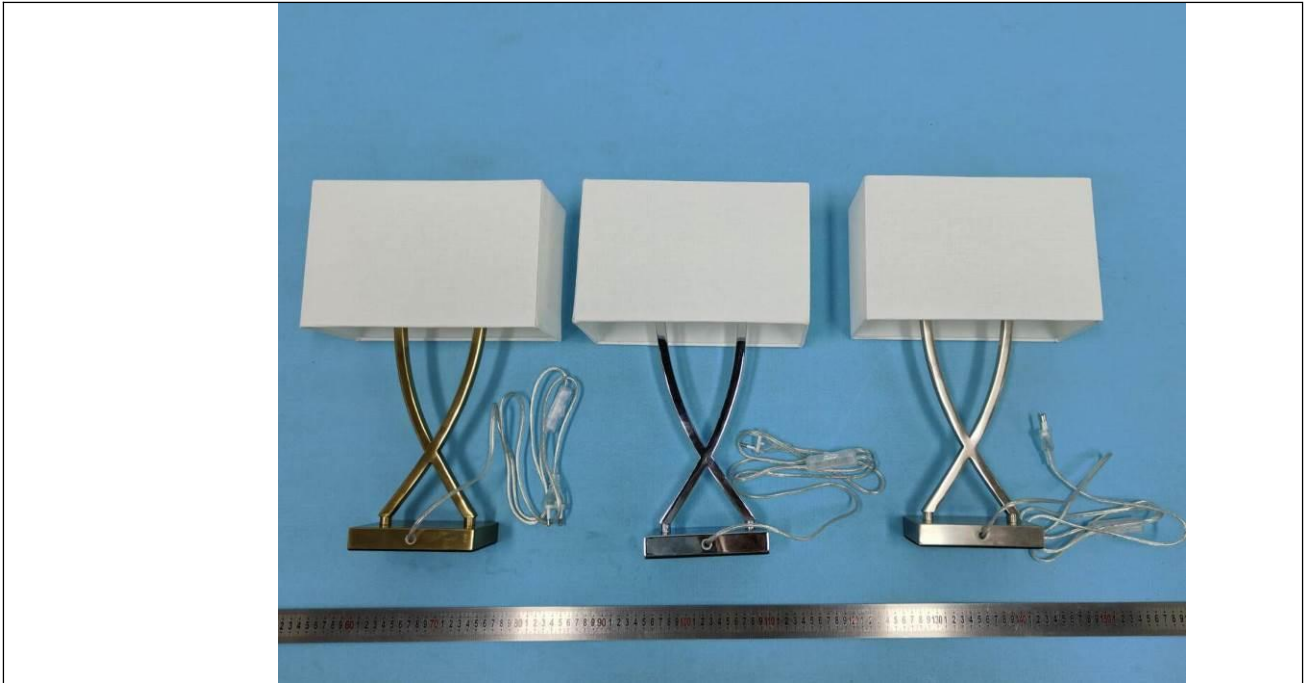
IEC 62031

Clause	Requirement + Test	Result - Remark	Verdict
13 (14)	FAULT CONDITIONS		P
- (14.1)	In compliance with IEC 61347-1 (clause numbers between parentheses refer to IEC 61347-1)		N/A
	When operated under fault conditions the LED module:		N/A
	- does not emit flames or molten material		N/A
	- does not produce flammable gases		N/A
	- protection against accidental contact not impaired		N/A
	Thermally protected controlgear does not exceed the marked temperature value		N/A
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected		N/A
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)		N/A
	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664- 3		N/A
- (14.3)	Short-circuit or interruption of semiconductor devices		N/A
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile		N/A
- (14.5)	Short-circuit across electrolytic capacitors		N/A
- (14.6)	After the tests has been carried out on three samples:		N/A
	The insulation resistance $\geq 1 \text{ M}\Omega$		N/A
	No flammable gases		N/A
	No accessible parts have become live		N/A
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		N/A
- (14.7)	Relevant fault condition tests with high-power supply		N/A
13.2	Overpower condition		P
	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		N/A
	No fire, smoke or flammable gas is produced		P
	Molten material does not ignite tissue paper, spread below the module		P

Attachment No.3

Product Photos

Details of: Fig. 1

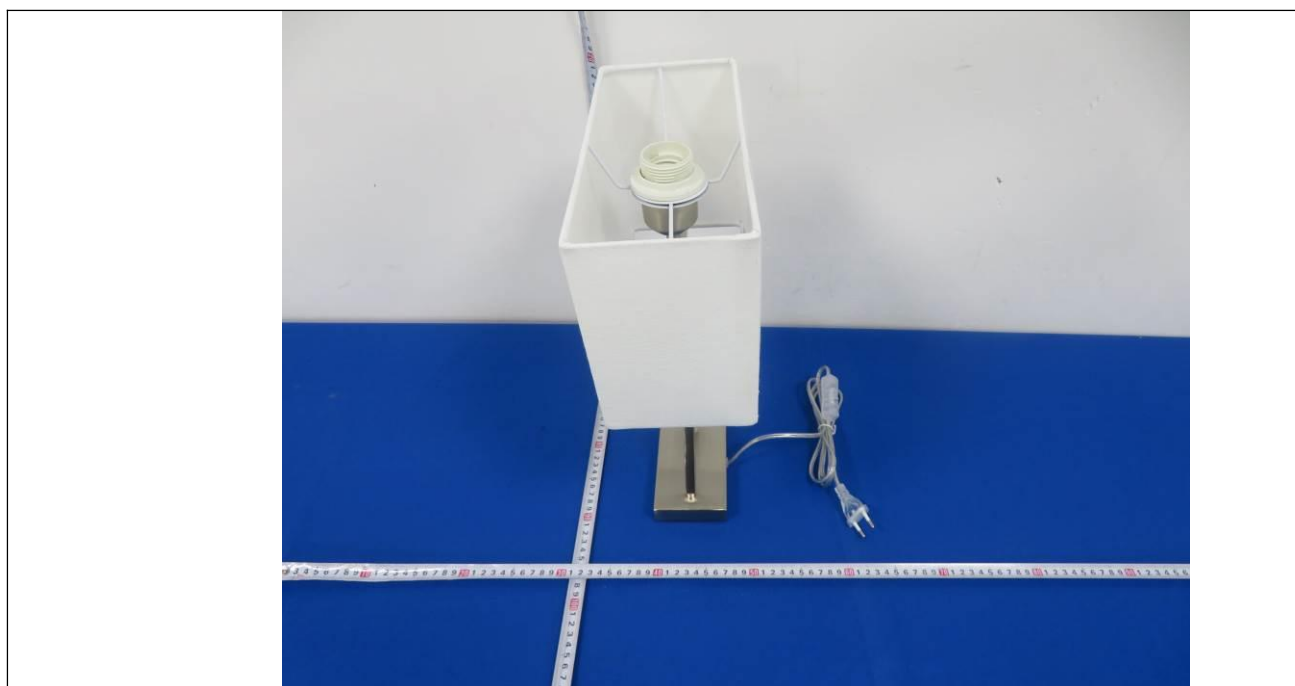


Details of: Fig. 2

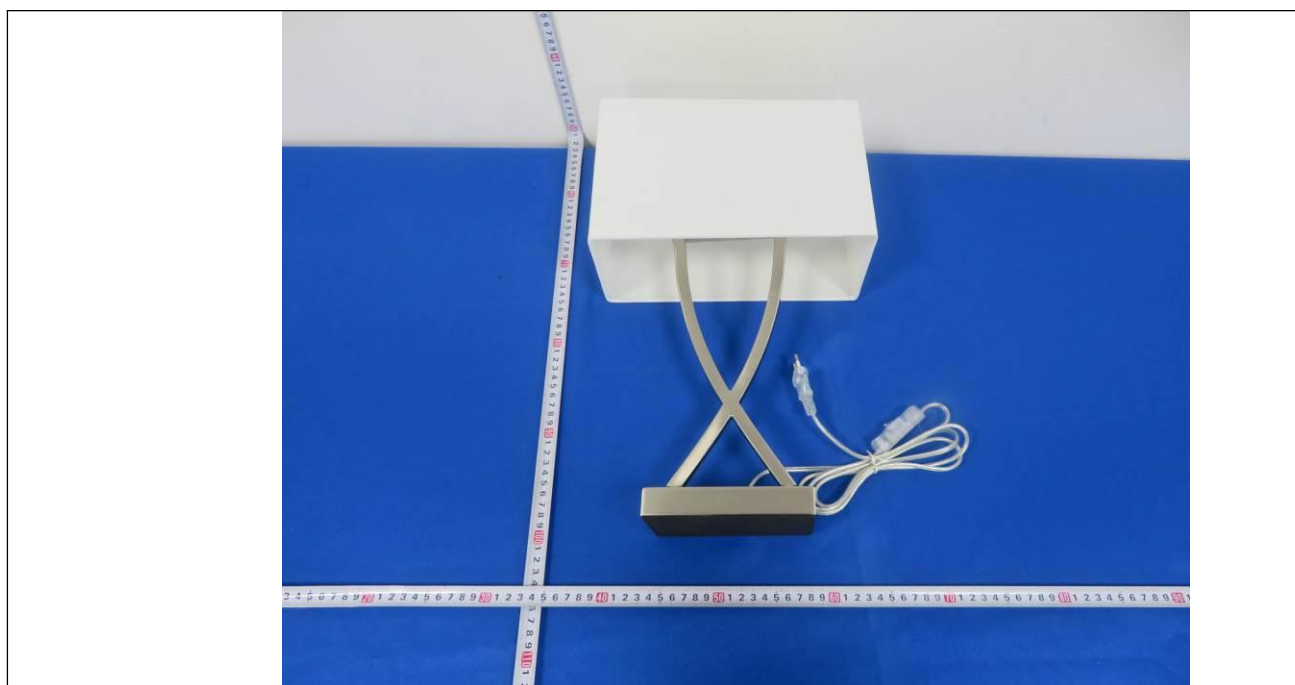


Attachment No.3**Product Photos**

Details of: Fig. 3



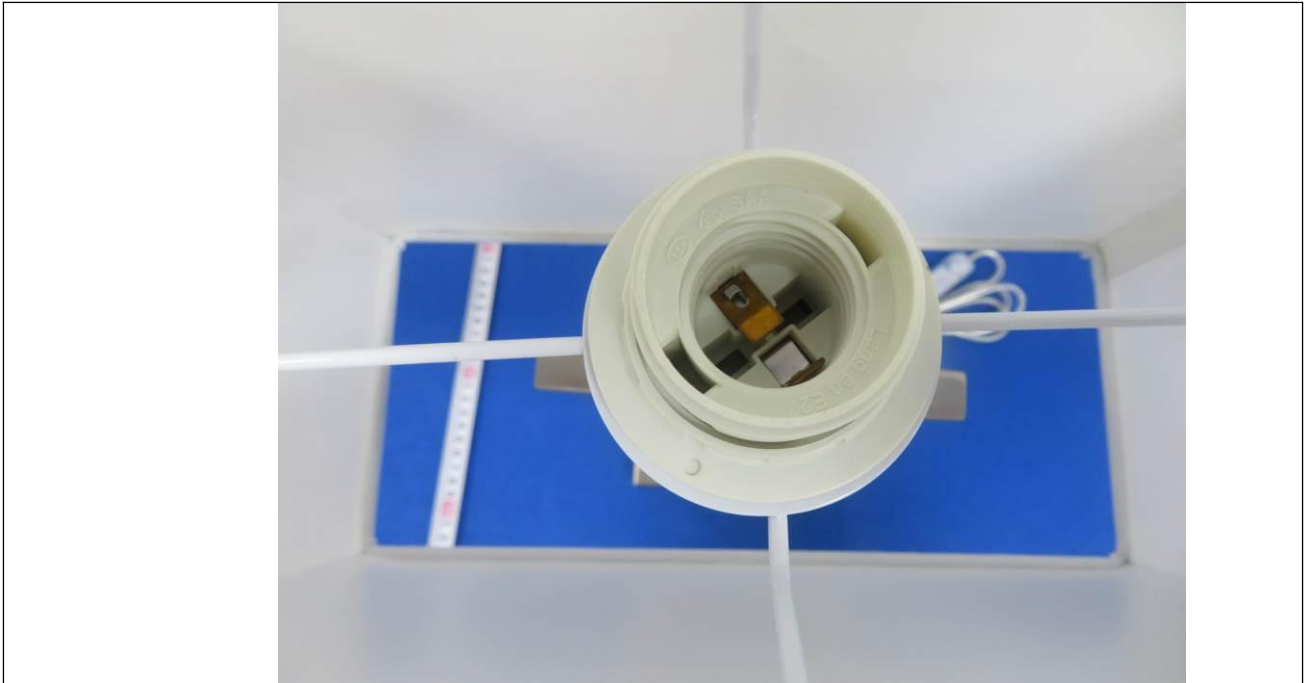
Details of: Fig. 4



Attachment No.3

Product Photos

Details of: Fig. 5



- End of test report -