

Report No.: LCSB07194027S



TEST REPORT IEC 60598-2-4

Luminaires

Part 2: Particular requirements -

Section 4: Portable general purpose luminaires

Report Number.....: LCSB07194027S

Date of issue....: August 14, 2024

Total number of pages...... 75 pages

Name of Testing Laboratory

preparing the Report....... Shenzhen Southern LCS Compliance Testing Co., Ltd.

Applicant's name...... Mid Ocean Brands B.V

Address.....: 7/F., King Tower, 111King Lam Street, Cheung ShaWan,

Kowloon, HongKong

Test specification:

Standard.....: IEC 60598-2-4:2017 for use in conjunction with IEC 60598-1:2020

Test procedure.....: CE-LVD

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

Test Report Form No.....: TRF-4-S-004 Ver. A/0

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

Master TRF.....: Dated 2021-06-10

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Table light wireless charger Test item description....: Trade Mark....: Manufacturer....: Same as applicant Address....:: Same as applicant Model/Type reference....: See "general product information and other remarks" See "general product information and other remarks" Ratings....: Testing Laboratory: Testing location/ address.....: Shenzhen Southern LCS Compliance Testing Co., Ltd. Room 101-201, Building 39, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China Taylor Du Tested by.....: (Engineer) Torres He Check by.....: (Director) Approved by....: Jesse Liu (Manager)

List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: European group differences.

Attachment No. 2: Tests according to EN IEC 62031:2020/A11:2021.

Attachment No. 3: Photobiological safety of lamps and lamp systems were according to standard IEC TR

62778:2014.

Attachment No. 4: Tests according to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021.

Attachment No. 5: Photo documentation.

Summary of testing:

Tests performed (name of test and test clause): Testing location: IEC 60598-2-4:2017; IEC 60598-1:2020; Shenzhen Southern LCS Compliance Testing Co., IEC 62493:2015+A1:2022; IEC 62031:2018; IEC TR 62778:2014; Room 101-201, Building 39, Xialang Industrial Zone, IEC 61347-2-11:2001+A1:2017; Heshuikou Community, Matian Street, Guangming IEC 61347-1:2015+A1:2017; District, Shenzhen, Guangdong, China

Summary of compliance with National Differences:

List of countries addressed

☐ The product fulfils the requirements of Germany and European Group differences

EN 60598-2-4:2018; EN IEC 60598-1:2021/A11:2022; EN 62493:2015/A1:2022;

EN IEC 62031:2020/A11:2021; EN 61347-2-11:2001+A1:2019; EN 61347-1:2015+A1:2021



Shenzhen Southern LCS Compliance Testing Co., Ltd.

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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.

ta: 45°C

The label was pasted to the surface of the luminaires:

Table light wireless charger

Model: MO6349

Input: 5VDC, 2A, 10W or 9VDC, 2A, 18W

Output: 5VDC, 1A or 9VDC, 1A

CE O

Mid Ocean Brands B.V

7/F., King Tower, 111King Lam Street, Cheung ShaWan,

Kowloon, HongKong Importer: xxxxxxxx Address: xxxxxxxx

Remarks:

Height of CE mark at least 5mm, height of WEEE symbol should not less than 7mm, height of other marks at least 5mm, height of letters and numerals at least 2mm.





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Test it	tem particulars	:		-
Classi	ification of installation	and use:	Portable Light, suitable for	indoor use only
Suppl	y Connection	:	USB wire	
Protec	ction Class	:	Class III	
Degre	e of Protection	:	IP20	
Possi	ble test case verdicts:			
- test	case does not apply to	the test object::	N/A	
- test	object does meet the re	equirement:	P (Pass)	
- test	object does not meet tl	ne requirement:	F (Fail)	
Testin	ıg	:		10.
Date o	of receipt of test item	:	2024-07-19	
Date (s) of performance of te	sts:	2024-07-19 ~ 2024-08-13	
Gener	ral remarks:			
The te "(See "(See Clause Clause The ge odel/ty applic	est results presented in the Enclosure #)" refers to a appended table)" refers to a appended table)" refers to an appended table)" refers to an appended table)" where enumbers between braceneral information of appended to an appended to a pended to a p	his report relate only to additional information ap to a table appended to not within the scope of ckets refer to clauses in policant and manufacture k and other similar informatives and stresponsible for verifying	pended to the report. the report. CNAS recognition. EN IEC 60598-1. r (such as the name and acmation contained in this rep	ddress), product name, m ort are all provided by the
		Modified In	formation	
	Version	Report No.	Revision Date	Summary
	V1.0	LCSB07194027S	-mi 46 13	Original Version
Manut	facturer's Declaration p	per sub-clause 4.2.5 of	IECEE 02:	立语位为 Lab
include declar sample repres	oplication for obtaining a es more than one factory ation from the Manufacto e(s) submitted for evalua entative of the products provided	r location and a urer stating that the ation is (are) from each factory has	☐ Yes☒ Not applicable	Tes res
When	differences exist; they	shall be identified in t	ne General product inform	ation section.
Name	and address of factor	y (ies)::	Same as applicant	





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General product information and other remarks:

- 1. IP20, ta: 45°C, Class III, suitable for direct mounting on normally flammable surfaces, suitable for indoor use only.
- 2. Product only suitable by SELV power source, constant voltage input.
- 3. Full test were performed on model MO6349.
- 4. Per requirement from applicant, this report only include the assessments according the standards menti oned in page 2, conformity against other applicable standards should ref to relevant test report.

Model list:

Model name	Input Rating	Output Rating
MO6349	5VDC, 2A, 10W or 9VDC, 2A, 18W	5VDC, 1A or 9VDC, 1A







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THE IN	Lab 共和位测度Lab	上语检测 ^{BZ} lab	一讯检测
LCS Testins	IEC 60598-2-4	LCS Testins	LCS Testil
Clause	Requirement + Test	Result - Remark	Verdict
4.4 (0)	GENERAL TEST REQUIREMENTS		Р
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 s	standards	_
4.4 (0.7.2)	Light source safety standard:	EN IEC 62031	_
	Luminaire design in the light source safety standard	一话位测度	Lab P
1/6/	LCS Testing LCS Testing	157 LCS Testin	9
4.5 (2)	CLASSIFICATION OF LUMINAIRES	1 107-2	Р
4.5 (2.2)	Type of protection:	Class III	Р
4.5 (2.3)	Degree of protection:	IP20	_
4.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	
4.5 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
	Luminaire for rough service:	Yes □ No ⊠	_
4.5.1 (-)	Ordinary luminaire classified "for indoor use only":	Yes ⊠ No □	_
立语检测的 LCS Testing	Luminaires other than ordinary classified "for indoor use only":	Yes □ No ⊠	_
	Luminaires other than ordinary classified for "outdoor use" and "for indoor use":	Yes □ No ⊠	_
4.5.2 (-)	Portable luminaire for outdoor use classified IPX4 or higher	IP20	N/A
4.5.3 (-)	Luminaires designed for standing on a floor or table classified as suitable for direct mounting on normally flammable surfaces		Р
4.6 (3)	MARKING		πР
4.6 (3.2)	Mandatory markings	一流位别	Lab P
Medi	Position of the marking	MSA LCS Testin	Р
	Format of symbols/text		Р
4.6 (3.3)	Additional information		Р
	Language of instructions	English	Р
4.6 (3.3.1)	Combination luminaires		N/A



4.6 (3.3.2)

Nominal frequency in Hz

Shenzhen Southern LCS Compliance Testing Co., Ltd.
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N/A



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LCS Testing	IEC 60598-2-4	LCS Testilis	LCS Test
Clause	Requirement + Test	Result - Remark	Verdict
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	一识检测的	N/A
4.6 (3.3.11)	Luminaires with remote control	157 LCS Testin	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	For DC: ===	Р
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		N/A
4.6 (3.3.18)	Non-ordinary luminaires with PVC cable	THE CO	N/A
4.6 (3.3.19)	Protective conductor current in instruction if applicable	立语检测型 Lab ICS Testing Lab	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	Non-user replaceable light sources	13
4.6 (3.3.22)	Controllable luminaires, classification of insulation provided		WA
4.6 (3.3.23)	Luminaires 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	女 开检测器	N/A
4.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided	- LCS TOSH	N/A
4.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided		N/A
4.6 (3.4)	Test with water		Р
	Test with hexane		Р
	Legible after test		Р





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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
	Label attached		Р
4.6.1 (-)	Luminaire not suitable for outdoor application		Р
	Required symbol		Р
	Information in the instructions		Р
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire		N/A
	Maximum power rating marked	4.10月	N/A
115	Position of the marking	T Trivia	N/A

4.7 (4)	CONSTRUCTION		Р
4.7 (4.2)	Components replaceable without difficulty		Р
4.7 (4.3)	Wireways smooth and free from sharp edges		Р
4.7 (4.4)	Lampholders		N/A
4.7 (4.4.1)	Integral lampholder		N/A
4.7 (4.4.2)	Wiring connection		N/A
4.7 (4.4.3)	Lampholder for end-to-end mounting	a Hà	N/A
4.7 (4.4.4)	Positioning	大话位河南 Lab	N/A
LCS Testills	- pressure test (N)	LCS Testills	_
	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)		_
	After test the lampholder has not moved from its position and show no permanent deformation		N/A
4.7 (4.4.5)	Peak pulse voltage		N/A
4.7 (4.4.6)	Centre contact	古形检测的	N/A
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking	151 LCS Testin	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







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I Co.	IEC 60598-2-4	/C2 .	rca.
Clause	Requirement + Test	Result - Remark	Verdic
	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	和原金河	N/A
1/27	Test 8 mm earth conductor	LCS Testin	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
A SIII RE	- electrical test according to 15.6.3	公测股份	N/A
立识 Testing	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	Till Exting Lab	N/A
4.7 (4.7.4)	Terminals other than supply connection	100	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		Р
	- adequate rating	CE certification	Р
	- adequate fixing		Р
	- polarized supply		N/A
NE!	- compliance with IEC 61058-1 for electronic switches	VSL 工活检测图	N/A
4.7 (4.9)	Insulating lining and sleeves		N/A
4.7 (4.9.1)	Retainment		N/A
	Method of fixing		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





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LCSTest	IEC 60598-2-4	LCS Test	LCSTes
Clause	Requirement + Test	Result - Remark	Verdict
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C):		N/A
4.7 (4.10)	Double or reinforced insulation		N/A
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors and switches		N/A
4.7 (4.10.2)	Assembly gaps:	VS Testin	N/A
	- not coincidental	152 10	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	m. H	N/A
立语检测版 LCS Testing	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor	立语位词。 LCS Testing Lab	N/A
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)		N/A
	Capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.2 of IEC 60065		N/A
4.7 (4.11)	Electrical connections and current-carrying parts		р
4.7 (4.11.1)	Contact pressure		N/A
4.7 (4.11.2)	Screws: 40	A line	N/A
	- self-tapping screws	工训和Testin	N/A
132	- thread-cutting screws	184 rcs	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		Р
4.7 (4.14.7)	No contact to wood or mounting surface		Р







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LCS Test.	IEC 60598-2-4	LCS Test	LCS Tes.
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.14.7)	Electro-mechanical contact systems		Р
4.7 (4.12)	Screws and connections (mechanical) and glands		Р
4.7 (4.12.1)	Screws not made of soft metal		Р
	Screws of insulating material		N/A
	Torque test: torque (Nm); part:	Fixed enclosure: 0,5Nm	Р
	Torque test: torque (Nm); part:	Fixed PCB of controller: 0,5Nm	P
	Torque test: torque (Nm); part:	· 证证则的	N/A
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal	MST LCS Testin	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		Р
4.7 (4.13.1)	Impact tests:		Р
. A SIMI BE	- fragile parts; energy (Nm):	人测度份	N/A
立识型man	- other parts; energy (Nm):	Enclosure: 0,5Nm	工》Post
/Cp	1) live parts	Fog	N/A
	2) linings		N/A
	3) protection		Р
	4) covers		N/A
4.7 (4.13.2)	Metal parts have adequate mechanical strength		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	上 訊 拉 测 用	N/A
1/51	b) hand-held	MST LCS Testin	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







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LCS Testing	IEC 60598-2-4	LCS Testing	LCS Test
Clause	Requirement + Test	Result - Remark	Verdict
	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)		N/A
	Metal rod. diameter (mm):	7 10 10 10 10 10 10 10 10 10 10 10 10 10	N/A
161°	Fixed luminaire or independent control gear without fixing devices	LCS Testin	N/A
4.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg):		<u> </u>
	Stress in conductors (N/mm²):		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:	uS.	N/A
上讯检测版	- strands broken:	主语检测度的 Lab	N/A
LCS Testing	- electric strength test afterwards	LCS Testing	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	,	Р
	- glow-wire test 650°C	See Test Table 1.15 (13.3.2)	Р
	- spacing ≥30 mm		N/A
	- screen withstanding test of 13.3.1	, el	N/A
	- screen dimensions	古. 开拉测点	N/A
1/21	- no fiercely burning material	151 LCS Testin	Р
	- thermal protection		N/A
	- electronic circuits exempted		N/A
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp of	control gear	N/A
	a) construction		N/A
	b) temperature sensing control		N/A









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Clause	Requirement + Test	Result - Remark	Verdict
Olduso	Troquiroment - Test	result remain	Voluiot
	c) surface temperature		N/A
4.7 (4.16)	Luminaires for mounting on normally flammable s	surfaces	Р
	No lamp control gear	(compliance with Section 12)	N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces		N/A
4.7 (4.16.1)	Lamp control gear spacing:	enti Bi	N/A
	- spacing 35 mm	立识 ^读	N/A
1/20	- spacing 10 mm	151 LCS 16	N/A
4.7 (4.16.2)	Thermal protection:		N/A
	- 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
可检测版	Clearance at least 5 mm	可检测股份	N/A
4.7 (4.18)	Resistance to corrosion	ICS Testing	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	士 訊检测器	N/A
4.7 (4.21.2)	Particles from a shattering lamp not impair safety	157 LCS Testill	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 1.15 (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





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LCS Test	IEC 60598-2-4	Los Test	Lcs Tes.
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.24)	Photobiological hazards		Р
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	1	Р
	Class of risk group assessed according to IEC/TR 62778	RG0	_
	Luminaires with E _{thr} :		N/A
. 13	a) Fixed luminaires	立讯位测明	N/A
1/20	- distance x m, borderline between RG1 and RG2:	130 rcs to	N/A
	- marking and instruction according 3.2.23		N/A
	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	1	Р
可检测股	No sharp point or edges	T 检测股份	P
4.7 (4.26)	Short-circuit protection	IL Millesting Land	N/A
4.7 (4.26.1)	Adequate means of uninsulated accessible SELV or PELV parts	1	N/A
4.7 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Supply source ES1 PSE		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 protect	ive earthing contacts	N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)	工河 Testin	N/A
- 184	After test, resistance < 0,05 Ω	100	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	1	N/A
	Not plug-in or easily replaceable type		N/A





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res.	IEC 60598-2-4	100	res .
Clause	Requirement + Test	Result - Remark	Verdict
	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}	11 10 10 10 10 10 10 10 10 10 10 10 10 1	N/A
V.51.	Temperature sensing control still in position	MST ICS Testin	N/A
4.7 (4.29)	Luminaires with non-replaceable light source	142	N/A
	Not possible to replace light source		N/A
	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		Р
	If protective cover provide protection against electric s electric shock risk" symbol:	hock and marked with "caution,	N/A
	At least one fixing means requiring use of tool		Р
4.7 (4.31)	Insulation between circuits	(本) 股份	P
立识 ^{Myzy} LCS Testing	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	立语和 LCS Testing Lab	N/A
	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 or PELV circuits		Р
	Used SELV or PELV source		Р
+	Voltage ≤ ELV		N/A
	Insulating of SELV or PELV circuits from LV supply		N/A
	Insulating of SELV or PELV circuits from other non SELV or PELV circuits	文·开检测图	N/A
1/2	Insulating of SELV or PELV circuits from FELV	LCS Test	N/A
	Insulating of SELV or PELV circuits from other SELV or PELV circuits		N/A
	SELV or PELV circuits insulated from accessible parts according Table X.1		Р
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A





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LCS Testing	IEC 60598-2-4	LCS Testilis	LCS Tes
Clause	Requirement + Test	Result - Remark	Verdic
	Socket outlets does not admit plugs of other voltage systems		Р
	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 ≤ ELV	-call 8	N/A
	Insulating of FELV circuits from LV supply	立语位 No.	N/A
160	FELV circuits insulated from accessible parts according Table X.1	Tes Ice	N/A
	Plugs not able to make any electrical contact with socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets have protective conductor contact		N/A
4.7 (4.31.3)	Other circuits		N/A
- TILLE	Other circuits insulated from accessible parts according Table X.1	一侧股份	N/A
立语 ^{他们的} LCS Testing	Class II construction with equipotential bonding for prowith live parts:	tection against indirect contacts	N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part does 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	A WE SHA	N/A
V51.	Comply with IEC 61643-11	VST CS Testin	N/A
132	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
4.7 (4.33)	Luminaire powered via information technology co	mmunication cabling	N/A
	Requirements for Class III luminaire		N/A







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LCS Testing	IEC 60598-2-4	LCS Testing	LCS Testi
Clause	Requirement + Test	Result - Remark	Verdict
	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector		N/A
	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A
4.7 (4.34)	Electromagnetic fields (EMF)		Р
	No harmful electromagnetic fields		Р
4.7 (4.35)	Protection against moving fan blades		N/A
	Test with a standard test finger	立语 ^{被测明}	N/A
164	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire	- Los to	N/A
	Blades rounded with radius ≥ 0.5 mm and:		N/A
	- hardness less than D60 Shore		N/A
	- peripheral speed less than 15 m/s		N/A
	- input power of fan ≤ 2 W at rated voltage		N/A
4.7 (4.36)	Track-mounted luminaires		N/A
	Test in accordance with Annex A of IEC60570:2003/AMD2:2019	- H	N/A
4.7.1 (-)	Insulation not damaged when moving, adjusting or placing on support	工讯检测版 Lab	立译 CS Testi
4.7.2 (-)	Wiring fixed, to avoid rubbing	1	Р
	Carrier or clips of insulation material or with insulating lining		Р
4.7.3 (-)	Luminaire does not overturn:		Р
	- at an angle of 6° for indoor use		Р
	- at an angle 15° for outdoor use		N/A
4.7.4 (-)	Candlestick luminaires provided with switch		N/A
	Switch in candlestick luminaires with E5 or E10 lampholders switches all lamps on and off simultaneously	立 语检测图	N/A
1/2	Switch part of the luminaire or within 300 mm of the luminaire if with cord	UST LCS TOST	N/A
4.7.5 (-)	Voltage not exceeding 25 V for E5 lampholders		N/A
	E10 lampholder voltage:		N/A
	- not exceeding 60 V for series connection		N/A
	- not exceeding 250 V for parallel connection		N/A
	Maximum rated wattage does not exceed 100 W		N/A
	E10 lampholder voltage: - not exceeding 60 V for series connection - not exceeding 250 V for parallel connection		







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7.14.15	Lab = 14/12 - Lab	上 沿江 Cap	7 11/1/2
	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
4.7.6 (-)	Tails not provided for luminaires for outdoor use		N/A
4.7.7 (-)	Not more than two cable entries for luminaires for outdoor use		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.	- A	N/A
E	Class II luminaires, mains socket-outlets comply with the standard and only allow connection to Class II luminaires	LCS Testin	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 (-)	Lampholders and plugs resistant to tracking for luminaires for outdoor use	See Test Table 4.16 (13.4)	N/A
	Compliance to clause 13.4		N/A

4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		Р
4.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II Category III SELV Max. 9VDC	
	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
4.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 4.8 (11.2) I	N/A
	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 4.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.8 (11.2) II	N/A
4.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 4.8 (11.2) I	N/A
-184	Clearances distances for frequency over 30 kHz:	100	N/A
	- Controlgear marked with <i>U</i> _P	See Test Table 4.8 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.8 (11.2) II	N/A

4.9 (7)	PROVISION FOR EARTHING	N/A
7.0 (<i>i j</i>	I ROVIDION I ON EXECUTION	1 4// 1







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Clause Requirement + Test Result - Remark 4.9 (7.2.1 + 7.2.3) Accessible metal parts Metal parts in contact with supporting surface Resistance < 0,5 Ω	T Tes
# 7.2.3) Accessible frietal parts Metal parts in contact with supporting surface Resistance < 0,5 Ω	Verdic
Resistance < 0,5 Ω	N/A
Self-tapping screws used Thread-forming screws Thread-forming screw used in a grove Protective earth makes contact first Terminal blocks with integrated screwless protective	N/A
Thread-forming screws Thread-forming screw used in a grove Protective earth makes contact first Terminal blocks with integrated screwless protective	N/A
Thread-forming screw used in a grove Protective earth makes contact first Terminal blocks with integrated screwless protective	N/A
Protective earth makes contact first Terminal blocks with integrated screwless protective	N/A
Terminal blocks with integrated screwless protective	N/A
	N/A
	N/A
Protective earthing of the luminaire not via built-in control gear	N/A
4.9 (7.2.2 + 7.2.3) Protective earthing continuity in joints, etc.	N/A
4.9 (7.2.4) Locking of clamping means	N/A
Compliance with 4.7.3	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 protective earth terminal	N/A
4.9 (7.2.8) Material of protective 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) Protective earthing core coloured green-yellow	NA
Length of protective earthing conductor	N/A
4.9 (7.2.12) PELV circuit connected to protective earth for functional purpose	N/A

	立讯检测 Lab	古·讯检·测量	g Lab
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)			N/A
	Separately approved; component list:	(see Annex 1)	N/A





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LCS Testing	IEC 60598-2-4	LCS Testing 18	LCS Testin
Clause	Requirement + Test	Result - Remark	Verdict
	Part of the luminaire:	(see Annex 4)	N/A

4.11 (5)	EXTERNAL AND INTERNAL WIRING		Р
4.11 (5.2)	Supply connection and external wiring		Р
4.11 (5.2.1)	Means of connection:	USB wire	Р
E ·	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment	LCS Testin	N/A
4.11 (5.2.2)	Type of cable:		N/A
	Nominal cross-sectional area (mm²):		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
. 1987b.	- suitable for introduction		N/A
古河检测版	- adequate degree of protection	古讯检测Relab	N/A
4.11 (5.2.7)	Cable entries through rigid material have rounded edges	LCS Test.	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:	二 五 拉 测 引	N/A
Net 3	- covering protected from abrasion	MSA LCS Testin	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







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LCS Testino	IEC 60598-2-4	LCS Testing	LCSTes
Clause	Requirement + Test	Result - Remark	Verdict
	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
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool	上 讯检测师	N/A
164	Glands not used as anchorage	LCS Testin	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
上:四检测股	- displacement ≤ 2 mm	上河位测度 ^价	N/A
Los Testing	- no movement of conductors	LCS Testing	N/A
	- no damage of cable or cord		N/A
	- function independent of electrical connection		N/A
4.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with	maximum current of 2A:	N/A
	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC		N/A
	- Ordinary Class III luminaire supplied with PELV ≤ 12V RMS/30V DC		N/A
	- Other than ordinary Class III luminaire supplied with voltage ≤ 12V RMS/30V DC	立讯检测制	N/A
1/20	Pull test of 30 N	Tes res	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



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LCS Testing	IEC 60598-2-4	LCS Testins	LCS Test
Clause	Requirement + Test	Result - Remark	Verdict
	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 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)	- mi B	N/A
4.11 (5.2.16)	Appliance inlets (IEC 60320)	LCS Testin	N/A
	Installation couplers (IEC 61535)		N/A
	Appliance inlet or connector systems (IEC 61984)		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	加松测版价	P
4.11 (5.3.1)	Internal wiring of suitable size and type	I GS Testing La	T. Rest
	Through wiring	12	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 protective earth only		N/A
4.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		N/A
,	Cross-sectional area (mm²):	上海检测的	N/A
Nel 3	Insulation thickness (mm):	MST LCS Testin	N/A
	Extra insulation added where necessary		N/A
4.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	urrent-limiting device	Р
	Cross-sectional area (mm²):		Р
4.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A







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LCS Testins	IEC 60598-2-4	LCS Testins	LCS Test
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5.3.1.4)	Conductors without insulation		N/A
4.11 (5.3.1.5)	SELV or PELV current-carrying parts		Р
4.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
4.11 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.	· 语称 测用	N/A
1/5/1	Joints, raising/lowering devices	151 LCS Testin	N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		Р
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	一则股份	N/A
4.11 (5.3.5)	Strain on internal wiring	Till Testing Lab	N/A
4.11 (5.3.6)	Wire carriers	100	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 area	a reduced cross-sectional	N/A
	Under test the temperature of the luminaire wiring insulation does 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 (-)	Cord anchorage of luminaire for indoor use made of glass or ceramic not fixed or integral	立洲检测B	N/A
4.11.2 (-)	For Class I and Class II luminaires for indoor use, if:	Tea.	N/A
	- mass < 1 kg (kg)		N/A
	- rated current ≤ 2,5 A (A)		N/A
	- cable length ≤ 2 m (m)		N/A
	- the nominal cross-sectional area of copper conductor ≥ 0,5 mm² (mm²):		N/A







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一二沿河	Tap Taller Tap	Lab Lab	上语证
LCS Testin	IEC 60598-2-4	LCS Testing	VST LCS Testin
Clause	Requirement + Test	Result - Remark	Verdict
4.11.3 (-)	Terminals, cord anchorage and inlet opening provided for luminaire for outdoor use delivered without a flexible cable or cord and a plug.		N/A
4.11.4 (-)	Non-detachable flexible cables or cords not lighter than type 245 IEC 57 for Class I and Class II luminaires for outdoor use.		N/A

4.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK	N/A
4.12 (8.2.1)	Live parts not accessible	N/A
122	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 starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	N/A
立语检测版	Basic insulation only accessible under lamp or starter replacement	N/A
, 100	Protection in any position	N/A
	Double-ended tungsten filament lamp	N/A
	Insulation lacquer not reliable	N/A
	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	N/A
4.12 (8.2.3.a)	Class II luminaire:	N/A
Meg.	- basic insulated metal parts not accessible	N/A
	- required insulation from live parts in compliance with Table X.1	N/A
	- glass protective shields not used as supplementary insulation	N/A
4.12 (8.2.3.b)	Metal BC lampholder in class I luminaires connected to protective earth	N/A







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rcs.	IEC 60598-2-4	/ C2 , \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	rca ,
Clause	Requirement + Test	Result - Remark	Verdict
4.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V)		N/A
	- voltage under load/ no-load DC (V)		N/A
	- interrupted DC voltage (V)		N/A
	- touch current if applicable (mA)	7 July 2017	N/A
N21-3	One conductive part insulated	IS I Things	N/A
100	Other than ordinary luminaire:	100	N/A
	- voltage under load/ no-load AC (V)		N/A
	- voltage under load/ no-load DC (V)		N/A
	- interrupted DC voltage (V):		N/A
4.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:		N/A
	Ordinary luminaire:		N/A
	- voltage under load/ no-load AC (V):		N/A
可检测股	- voltage under load/ no-load DC (V)	7.检测股份	N/A
T Vivi Testing	Other than ordinary luminaire:	I CS Testing Las	N/A
	- voltage under load/ no-load AC (V)		N/A
	- voltage under load/ no-load DC (V)		N/A
	Pole not connected to earth insulated		N/A
	Class III luminaire only for connection to SELV or PELV		N/A
4.12 (8.2.4)	Portable luminaire has 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	· 一方流流流	N/A
4.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μF not exceed 50 V 1 min after disconnection	Les res	N/A
	Portable luminaire with capacitor $> 0.1~\mu F$ (0,25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor $> 0.1~\mu F$ (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





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LCS Testing	IEC 60598-2-4	ICS Testing Lo.	LCS Testin
Clause	Requirement + Test	Result - Remark	Verdict
	1) cap not accessible with test finger		N/A
	2) metal lampholder is earthed		N/A

4.13 (12)	ENDURANCE TEST AND THERMAL TEST		Р
4.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) but before (9.3) specified in 4.14		_
4.13 (12.2)	Selection of lamps and ballasts		_
VISA	Lamp used according Annex B	(Lamp used see Annex 2)	_
	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	_
4.13 (12.3)	Endurance test		Р
	a) mounting-position:	Normal used	_
	b) test temperature (°C):	55	_
	c) total duration (h):	240	_
	d) supply voltage (V):		_
-71	d) if not equipped with controlgear, constant voltage/current (V) or (A):	1,1x9VDC	_
1.13 (12.3.1d)	d) Class III luminaires powered via information technology communication cable:		_
	- voltage under normal operation (V)	199	_
	- voltage under abnormal operation (V):		
	e) luminaire ceases to operate		_
	f) luminaire with a constant light output function		N/A
4.13 (12.3.2)	After endurance test:		Р
	- no part unserviceable		Р
	- luminaire not unsafe		Р
	- no damage to track system	一、田位测度	N/A
1/5/	- marking legible	1 ST LCS Testing	Р
	- no cracks, deformation etc.		Р
4.13 (12.4)	Thermal test (normal operation)	(Annex 2)	Р
4.13 (12.5)	Thermal test (abnormal operation)	(Annex 2)	Р
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):		_







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100	IEC 60598-2-4	/C2 . 1/57	r res
Clause	Requirement + Test	Result - Remark	Verdict
	- case of abnormal conditions:		_
	- 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	二、本位测用	N/A
4.13 (12.6.2)	Temperature sensing control	LCS Testin	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 lu	minaires):	N/A
4.13 (12.7.1)	Luminaire without temperature sensing control	立讯检测RX Lab	N/A
4.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	12	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:	一、訊检測用	N/A
1/51	- case of abnormal conditions:	1187 LCS Testin	
	- 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 Test Table 1.15 (13.2.1)	N/A





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LCS Testing	IEC 60598-2-4	LCS Testins	LCS Testil
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70\	V, 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)	女语检测 ⁸	
1/si	Ball-pressure test	See Test Table 1.15 (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
. 77	- thermal link:	Yes □ No □	_
世语检测的	- manual reset cut-out:	Yes □ No □	_
LCSTes	- auto reset cut-out:	Yes No D	_
	- case of abnormal conditions		_
	- highest measured temperature of fixing point/ exposed part (°C)::		_
	Ball-pressure test:	See Test Table 4.15 (13.2.1)	N/A
4.13 (-)	Luminaire for indoor use tested in overturned position (overturns < 15°)		Р

4.14 (9)	RESISTANCE TO DUST AND MOISTURE		ua P
4.14 (-)	If IP > IP 20 the order of tests as specified in clause 4.13		N/A
4.14 (9.2)	Tests for ingress of dust, solid objects and moisture:	NST LCS Testing	Р
	- classification according to IP	IP20	_
	- mounting position during test	Normal mounting	_
	- fixing screws tightened; torque (Nm)		_
	- tests according to clauses	Clause 9.2.0	_
	- electric strength test afterwards		Р







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I reals	IEC 60598-2-4	Vez Vez	LCSTes
Clause	Requirement + Test	Result - Remark	Verdict
	a) no deposit in dust-proof luminaire		Р
	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		N/A
	c.2) For luminaires with drain holes – no hazardous water entry	古風检測用	N/A
E	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold-water jet-proof luminaire	LCS Testin	N/A
	e) no contact with live parts (IP 2X)		Р
	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	- 112	N/A
4.14 (9.3)	Humidity test 48 h	上:H位测度功	Pa JIII
LCS Testing	MST LCS Testing	ICS Testing	LCS Testi

4.15 (10)	5 (10) INSULATION RESISTANCE AND ELECTRIC STRENGTH		Р	
4.15 (10.2.1)	Insulation resistance test		Р	
	Cable or cord covered by metal foil or replaced by a metal rod of mm \varnothing :	Supply covered by metal foil	Р	
	Insulation resistance (M Ω):		Р	
	SELV or PELV:		Р	
	- between current-carrying parts of different polarity:		N/A	
	- between current-carrying parts and mounting surface:	100ΜΩ>1ΜΩ	於加 a Lab P	
182	- between current-carrying parts and metal parts of the luminaire:	100ΜΩ>1ΜΩ	Р	
	- 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 or PELV:		N/A	







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LCSTes	IEC 60598-2-4	LCSTES	LCSTes
Clause	Requirement + Test	Result - Remark	Verdict
	- between live parts of different polarity		N/A
	- 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:	在 那位测图	N/A
16	- Insulation bushings as described in Section 5:	LCS Testin	N/A
4.15 (10.2.2)	Electric strength test		Р
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Luminaires with ignitors provided with ballasts conforming to IEC 61347-2-9		N/A
	SELV or PELV:		Р
TAN ME	- between current-carrying parts of different polarity:	() 测度份	N/A
ICS Testing	- between current-carrying parts and mounting surface:	500V	LCSP est
	- between current-carrying parts and metal parts of the luminaire:	500V	Р
	- 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/PELV:		N/A
	- between live parts of different polarity:		N/A
	- between live parts and mounting surface:	THE SALES	N/A
VIST	- between live parts and metal parts:	VIST CS Testin	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 (10.3)	Touch current (mA):		N/A







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Tith Testing	IEC 60598-2-4	Title Lab	Little Testin
Clause	Requirement + Test	Result - Remark	Verdict
	Protective conductor current (mA):		N/A

4.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		
4.16 (13.2.1)	Ball-pressure test:	See Test Table 4.16 (13.2.1)	Р
4.16 (13.3.1)	Needle-flame test (10 s):	See Test Table 4.16 (13.3.1)	P 紹
4.16 (13.3.2)	Glow-wire test (650°C):	See Test Table 4.16 (13.3.2)	^{3 Lab} P
4.16 (13.4)	Proof tracking test (IEC 60112):	See Test Table 4.16 (13.4)	N/A











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			IEC 60	598-2-4			
Clause	Requiremen	Requirement + Test			Result - Remark		Verdict
4.8 (11.2)	TABLE I: C	reepage dista	nces and clea	rances			N/A
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						
	Applicable	part of IEC 60)598-1 Table 1	1.1.A*, 11.1.	B* and 11.2* ar	nd Table U.1*	
D'-1	Insulation	Measured	Requ	iired	Measured	Requi	red
Distances	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:				-7.114			an HA
Working vol	tage (V)	a		Harill Berry		古识检节	
PTI	LCS Testi		VST vc	STesting.	< 600 🗌	≥ 600 □ 5 10 10	_
Pulse voltag	ge or <i>U</i> ⊵ if app	licable (kV)		:			_
Supplement	ary informatio	n:					
Distance 2:							
Working vol	tage (V)			:			
PTI				:	< 600 □	≥ 600 □	_
Pulse voltag	ge or <i>U</i> ⊵ if app	licable (kV)		:			_
Supplement	ary informatio	n:					
Distance 3:	B		表测股份		可检测股份		三 格斯
Working vol	tage (V)	7 J. W.	cesting L		TENT Testing La	IT.	5
PTI					< 600 □	≥ 600 □	_
Pulse voltag	ge or <i>U</i> ⊵ if app	olicable (kV)		:			_
Supplement	ary informatio	n:					
			mentary; R – R	Reinforced. S	See also IEC 60	598-1 Annex M.	













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F	LCS Testing	Visa Los	IEC 60598-2-4	LCS Testing	151 LCS Test
C	Clause	Requirement + Test		Result - Remark	Verdict

4.8 (11.2)	TABLE II: C	reepage dis	tances and cl	earances			N/A	
	Minimum d	istances (mr	n) for a.c. hig	her than 30 k	Hz sinusoidal	voltages	-	
	Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Dietonose	Insulation	Measured	Requ	uired	Measured	Req	uired	
Distances	type **	clearance	clearance	*Table	creepage	creepage	*Table	
Distance 1:	可給测度份			可检测设价		<u></u>	河股份	
Working volt	tage (V)			CS Testing La		VIST CST	esti <u> </u>	
Frequency if	f applicable (k	:Hz)		:			_	
PTI				:	< 600 🗌	≥ 600 □	_	
Peak value	of the working	y voltage Û _{out}	if applicable (l	(V):			_	
Supplementa	ary information	n:			-		,	
Distance 2:								
Working volt	tage (V)			:			_	
Frequency if	f applicable (k	Hz)		:				
PTI	<u> </u>			:	< 600 🗌	≥ 600 □	_	
Peak value	of the working	ι voltage Û₀ut	if applicable (l	(V):	拉河短河	, d	_	
Supplementa	ary information	n:		16	rc2		Too I've	
Distance 3:								
Working volt	tage (V)			:				
Frequency if	f applicable (k	Hz)		:				
PTI				·····::	< 600 🗌	≥ 600 □	_	
Peak value of the working voltage \hat{U}_{out} if applicable (kV):						_		
Supplementa	ary informatio	n:						
** Insulation	type: B – Bas	ic; S – Suppl	ementary; R –	Reinforced.			-21/2	





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

4.16 (13.2.1)	TABLE: Ball Pressure Test of Thermoplastics				
Allowed impression diameter (mm):			2		_
Object/ Part No./ Material		Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
Plastics cove	er	See Annex 1	91	0,9	
PCB of conti	roller	See Annex 1	125	0,5	设份
Plastics enc	losure and law	See Annex 1	Resting Lab 91	0,6	g Lab
LED PCB	Fee .	See Annex 1	125	0,9	
Supplement	ary information:		1		

4.16 (13.3.1)	TABLE:	ABLE: Needle-flame test (IEC 60695-11-5)					
Object/ Pa Mater		Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb)	Verdict	
PCB of cont	roller	See Annex 1	10	No	0	Р	
LED PCB	^{/ a} p <u>//3</u>	See Annex 1	10	No	0	P	
Supplement	ary inform	ation: 157 CS Testing	1151	LCS Testing	1/50	LCS Testin	

4.16 (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)				Р	
Glow wire temperature:			650°C			_
Object/ Part No./ Material		Manufacturer/ trademark		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Plastics cov	er	See Annex 1		No	0	Р
Plastics enc	losure	See Annex 1	·····································	No	0	e份 P
Supplement	ary inform	ation:	汗 河 Jab		立讯应应	g Lab



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

4.16 (13.4) TABLE: Proof tracking test (IEC 60112)					
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:		. 08			- 115
工作检测度的 Los Testing Lab	TET L	用位测度73 STesting Lab		LCS Testin	a _{Pap}











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Clause	Requirement + Test	Result - Remark	Verdict
LCS Testin	IEC 60	598-2-4 CS (estimated as 1	
- 17 17 17 17 17 17 17 17 17 17 17 17 17	alar talli tallar		

ANNEX 1	TAE	BLE: Cr	itical components	information				Р
Object / part No.		Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Plastics cover		С	MIDGOLD SILICONE CO.,LTD	GF(E)-851	V-0, 105°C	EN IEC 60598- 1 EN 60598-2-4	UL E312893 Tested with appliance	
Plastics enclosure		C REAL	MIDGOLD SILICONE CO.,LTD	GF(E)-852	V-0, 105°C	EN IEC 60598- 1 EN 60598-2-4	UL E312893 Tested with appliance	
Switch		В	Mid Ocean Brands B.V	Switch	Max. 9VDC, 2A, T55	EN IEC 61058- 1 EN 61058-1-2	CE approve	
PCB of controller		С	XIAMEN LED BOARD ELECTRON- TECH CO LTD	LDB-S1	V-0, 130 °C	EN IEC 60598- 1 EN 60598-2-4	UL E347474 Tested with appliance	
LED chip		С	Fujian Lightning Optoelectronic Co., Ltd.	2835	If=90mA, Vf=2,7-3,3VDC CCT. 2700K- 6500K	IEC/TR 62778		ted with liance
LED PCB		С	Lianmeng Electronics Huiyang Co Ltd	LM-4, LM-5, LM-2, LM-3	V-0, 130 °C	EN IEC 60598- 1 EN 60598-2-4	Tested with	
Wire of LED module		С	DONGGUAN LIUQUAN WIRE CO LTD	1332	20AWG, 200°C, 300V	EN IEC 60598- 1 EN 60598-2-4	UL E327087 Tested with appliance	
USB wire		С	SHENZHEN YIMEITE ELECTRIC CABLE CO LTD	2464	20AWG, 80°C, 300V	EN IEC 60598- 1 EN 60598-2-4	Tes	E318342 ted with liance

Supplementary information:

1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- The component is replaceable with another one, also certified, with equivalent characteristics
- В - The component is replaceable if authorised by the test house
- С - Integrated component tested together with the appliance
- D - Alternative component



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5/	LCS Testing	LCS Testing	IEC 60598-2-4			
	Clause	Requirement + Test		Result - Remark		Verdict

ANNEX 2	TABLE: Thermal tests of Section 12				
	Type reference:	MO6349	_		
	Lamp used:	LED module	_		
	Lamp control gear used:		_		
	Mounting position of luminaire	Normal mounting	_		
	Supply wattage (W)	19,8	_		
1/5/1	Supply current (A):	2 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_		
	Temperatures in test 1 - 4 below are corrected for ta (°C):	45	_		
	- abnormal operating mode:	30N accident force	_		
4.13 (12.4)	- test 1: rated voltage		N/A		
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	1,1×9VDC=9,9V (In the charging state of the phone)	Р		
(A)	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	心测度份	N/A		
立识 ^{Myz} LCS Testing	Through wiring or looping-in wiring loaded by a current of A during the test:	Till Testing Lab	N/A		
4.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage:	1,1×9VDC=9,9V(In the charging state of the phone) 30N accident force	P/51		

Temperature measurements (°C)

Cort	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnor.		
Part	Ambient	test 1	test 2	test 3	limit	test 4	limit	
Switch	45		52,6		55	53,9	55	
PCB of controller	45		61,1		130	62,6	130	
Plastics enclosure	45	15 立流	63,2		Ref.	65,1	Ref.	
LED PCB	45	132	80,9		130	82,4	130	
Plastics cover	45		64,5		Ref.	65,9	Ref.	
Wire of LED module	45		52,1		200	53,9	200	
USB wire	45		57,8		80	58,6	80	
Support surface	45		47,9		90	48,9	130	
Lighting surface (0,1cm)	45		46,6		90			





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LCS Testing	IEC 60598-2-4	LCS Testing	MST LCS Testil	
Clause	Requirement + Test	Result - Remark	Verdict	

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	N/A			
(14.3.2.2)	Special preparation	N/A			
(14.3.2.3)	Terminal size	N/A			
	Cross-sectional area (mm²):	_			
(14.3.3)	Conductor space (mm):	N/A			
(14.4)	Mechanical tests	N/A			
(14.4.1)	Minimum distance	N/A			
(14.4.2)	Cannot slip out	N/A			
(14.4.3)	Special preparation	N/A			
(14.4.4)	Nominal diameter of thread (metric ISO thread): M	N/A			
Tin Testing	External wiring	N/A			
100	No soft metal	N/A			
(14.4.5)	Corrosion	N/A			
(14.4.6)	Nominal diameter of thread (mm):	N/A			
	Torque (Nm):	N/A			
(14.4.7)	Between metal surfaces	N/A			
	Lug terminal	N/A			
	Mantle terminal	N/A			
	Pull test; pull (N):	N/A			
(14.4.8)	Without undue damage	N/A			





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

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 Mat	N/A		
(15.3.2)	Clamping	N/A		
(15.3.3)	Stop	N/A		
(15.3.4)	Unprepared conductors	N/A		
(15.3.5)	Pressure on insulating material	N/A		
(15.3.6)	Clear connection method	N/A		
(15.3.7)	Clamping independently	N/A		
(15.3.8)	Fixed in position	N/A		
(15.3.10)	Conductor size	N/A		
17.7%	Type of conductor	N/A		
(15.5)	Terminals and connections for internal wiring	N/A		
(15.5.1)	Mechanical tests	N/A		
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	N/A		
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	N/A		
	Insertion force not exceeding 50 N	N/A		
(15.5.1.2)	Permanent connections: pull-off test (20 N)	N/A		
(15.5.2)	Electrical tests	N/A		
	Voltage drop (mV) after 1 h (4 samples):	N/A		
	Voltage drop of two inseparable joints	N/A		
	Number of cycles:	_		
184	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	N/A		
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)	N/A		
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	N/A		
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	N/A		



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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
(15.6)	Terminals and connections for external wiring		N/A
(15.6.1)	Conductors		N/A
	Terminal size and rating		N/A
15.6.2	Mechanical tests		N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N):		N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)	立汗检测的	N/A
(15.6.3)	Electrical tests	184 108	N/A
	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1		N/A

(15.6.3.1) (15.6.3.2)	TARLE: Contact resistance test / Heating tests							N/A			
	Voltag	je drop (m\	/) after 1	h							
terminal	•	1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)										
LA SIIII BE	份	Voltage dro	op of two	insepara	able joints	S	. 3.4	公司服份			الآتمي
立河和	Lab .	Voltage dro	op after 1	0th alt. 2	5th cycle)	力训作	esting Lab)	us!	立识和
100		Max. allow	ed voltag	e drop (r	nV)	:	24 [03			-1.52	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)										
	,	Voltage dro	op after 5	0th alt. 1	00th cyc	le					
		Max. allow	ed voltag	e drop (r	nV)	:					
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)										
		Continued	ageing: v	oltage d	rop after	10th alt.	25th cyc	le			LUX .
	古识检斯	Max. allow	ed voltag	e drop (r	nV)	小川門	b			在讯检测图	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)			W-							
		Continued	ageing: v	oltage d	rop after	50th alt.	100th cy	cle			
		Max. allowed voltage drop (mV)						_			
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	mV)										



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LCS Testing	IEC 60598-2-4	LCS Testing Lab	立河(Marina)
Clause	Requirement + Test	Result - Remark	Verdict
Supplement	tary information:		
	ANNEX 5: EMF test result according to EN 62493		Р
4	LIMITS		Р
4.1	General (f)	11115-04	设份 P
NSI.	Comply with Van der Hoofden test limit in 4.2.3 or inherently compliant in 4.2.2 and pass assessment procedure for intentional radiators in 4.3	LCS Testin	P Lab
4.2	Unintentional radiating part of lighting equipment		Р
4.2.2	Lighting equipment deemed to comply with the Van de	er Hoofden test without testing	Р
	1) electronic controlgear	Yes □ No ⊠	
	2) incandescent-lamp technology	Yes □ No ⊠	
	3) LED-light-source technology	Yes ⊠ No □	
	4) OLED-light-source technology	Yes □ No ⊠	
立讯检测股	5) high-pressure discharge lamp LED-light-source technologies	Yes □ No ⊠	立 语检测
LCS Testin	6) low-pressure discharge lamp technologies with exposure distance ≥ 50 cm	Yes □ No ⊠	LOSTest
	7) independent auxiliary	Yes □ No ⊠	
	Not fulfil any of 1-7 above subject to 4.2.3		_
4.2.3	Applications of limits		N/A
	Not fulfil any of 1-7 in 4.2.2 but the compliance factor F is ≤ 1		N/A
4.3	Intentional radiating part of lighting equipment		N/A
	Comply with one of methods in Clause 7 if intentional radiator		N/A
. VIS	tithe ting Land	HOOFDEN TEST WSA 105 Testin	ig Lav
6	MEASUREMENT PROCEDURE FOR THE VAN DER	HOOFDEN TEST	N/A
6.1	General	Con Table C	N/A
	Measurements carried out under conditions according Clause 6.1 – 6.6	See Table 6	N/A



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Low-power exclusion method

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ASSESSMENT PROCEDURE INTENTIONAL RADIATORS



N/A N/A



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LCS Testin	IEC 60598-2-4	LCS Testing	LCS Testin		
Clause	Requirement + Test	Result - Remark	Verdict		
7.2.1	Input P _{int,rad} :				
	Exclusion level P _{max} :		_		
	Input power $P_{\text{int,rad}}$ < exclusion level P_{max}		N/A		
7.3	Application of the EMF product standard for body w	orn-equipment	N/A		
	If not Clause 7.2 is met and expose distance ≤ 0.05 m, comply with IEC 62209-2		N/A		
7.4	Application of the EMF product standard for base stations				
184	If not Clause 7.2 is met and if intentional radiator is base station, comply with IEC 62232	LCS TO	N/A		
7.5	Application of another EMF standard		N/A		
	If not Clause 7.2 is met and if intentional radiator cannot be considered as in Clause 7.3 or 7.4, comply with IEC 62311		N/A		

TABLE: Measurement results with Van der Hoofden test head						
Location of EUT	Test model	Measuring distance	Result(F)	Limit(F)	Verdict	
Reference Annex B EN 62493:2015/A1:2	- TIME and F	WS	在清格型测度Lab	≤1.0	N/A	















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Attachment No.1

Clause	Requirement + Test	Result - Remark	100	Verdict

ATTACHMENT TO TEST REPORT **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

Luminaires

Part 2: Particular requirements

Section 4: Portable general purpose luminaires

EN IEC 60598-1:2021/A11:2022

EN 60598-2-4:2018 used in conjunction with Differences according to.....

	CENELEC COMMON MODIFICATIONS (EN)	I Tithan	P
152			
4.6 (3)	MARKING		Р
(3.2.12)	Delete the note 4		Р
4.7 (4)	CONSTRUCTION		Р
4.7 (4.11.6)	Electro-mechanical contact systems: electric strength test at 1 500 V		N/A
4.11 (5)	EXTERNAL AND INTERNAL WIRING	- 14-7111 BE (1)	P
4.11 (5.2.2)	Cables equal to EN 50525	Till Ing Lab	Pest
4.11 (5.2.2)	Delete paragraph 2		N/A
	Replace table 5.1 – Supply cord		N/A
4.11.4 (-)	For class I and class II portable luminaires for outdoor use, non-detachable flexible cables or cords not lighter than type H05RN-F		N/A
4.13 (12)	ENDURANCE TESTS AND THERMAL TESTS		P*
4.13 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring		P
	大型版·		Ž/\13
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN	To Testin	N/A

ZB VS	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	VST CS Testin	N/A
(3.3)	DK: power supply cords of class I luminaires with label		N/A
(5.2.18)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, GB: type of plug		N/A
4.4.4 (-)	DK: luminaires for outdoor use classified as class II or class III		N/A



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Attachment No.1

Clause	Requirement + Test	Result - Remark	Verdict
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A
	FR: Safety requirements for high buildings		
	(Arrêté du 30 décembre 2011 portant règlement de s immeubles de grande hauteur et leur protection conti panique; Section VIII; Article GH 48, Eclairage) Glow-wire test for outer parts of luminaires:		N/A
-124	- 850°C for luminaires in stairways and horizontal travel paths	Too Los	N/A
	- 650°C for indoor luminaires		N/A
	GB: Requirements according to United Kingdom Building Regulation		N/A













· 立语检测版	Attach	nment No.2	
	Tests according to E	EN IEC 62031:2020/A11:2021	371 (00
Clause	Requirement + Test	Result - Remark	Verdict

12 (14)	FAULT CONDITIONS			
- (14.1)	When operated under fault conditions the controlgear:		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	
1513	Thermally protected controlgear does not exceed the marked temperature value	立汗检测的	N/A	
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	N/A	
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	N/A	
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	N/A	
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile (see appended table)		N/A	
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	N/A	
LCS Testing	Short-circuit or interruption of SPDs	(see appended table)	N/A	
- (14.6)	After the tests has been carried out on three samples:			
	The insulation resistance \geq 1 M Ω :		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 a.c. supply and in turn to a d.c. supply		_	
12.2	Overpower condition	7. 松河	y(f) P	
115/-3	Module withstands overpower condition >15 min.	NST CS Testin	P	
199	Module with automatic protective device or power limiter, test performed 15 min. at limit.		N/A	
	No fire, smoke or flammable gas is produced		Р	
	Molten material does not ignite tissue paper, spread below the module		Р	



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工工活检测版 CSTesting	Attachment N	lo.2 Testing Lab		
	Tests according to EN IEC 6203	1:2020/A11:2021	100	P
Clause	Requirement + Test	Result - Remark		Verdict

12 (14)	TABLE: tests of fault conditions	
Part	Simulated fault	Hazard
One LED	SC, normal working, no flames, no gases, recoverable	No















Attachment No.3

Clause	Req	uirement + Test			Result - Rer	mark	Verdict			
		Spectroradiometri	c measur	ement (IEC TR	62778: 2014)					
		Measurement perfe	ormed on	:	☐ LED package	е				
					∠ LED module					
					Lamp					
		····		A TIME A	□ Luminaire □ Lum					
The state of the s	r iff. fi	Model number		Till'I ging!	MO6349	拉洲河湾				
150	rce,	Test voltage (V)				1 ST res				
		Test current (mA)								
		Test frequency (Hz	-							
		Ambient, t (°C)	•••••	•••••	25,0					
		Measurement dista	ance	••••••	⊠ 20 cm					
					☐ cm					
		Source size		•••••	⊠ Non-small					
					☐ Small : m	nm				
		Field of view			☐ 100 mrad	分				
		文 文 Testing Lab								
LCS TO	14	/\5_ \c			NCA LO	- 1				
0		em	Symbol	Units	Result	Risk Gro	oup			
Correlated co		•	ССТ	K						
x/y colour coc										
Blue light haz			L _B	W/(m ² •sr ¹)	43	RG0				
Blue light haz	ard i	rradiance	Ев	W/m ²						
Luminance			L	cd/m ²	6,510e+004					
Illuminance			E	lx						
Supplementar				-mil RE	份	-mil B	设价			
151	Link	可 ^{测别} Lab esting Lab	1	五 LCS Testing	ab	LCS Testin	gLab			



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Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019), EN 61347-1:2015+A1:2021.			
Clause	Requirement + Test	Result - Remark	Verdict		
4 (4)	GENERAL REQUIREMENTS				
- (4)	Insulation materials according requirements in Annex N of IEC 61347-1 (see Annex N)				
- (4)	Compliance of independent controlgear enclosure with IEC 60598-1				
- (4)	Built-in magnetic ballast with double or reinforced insulation comply with Annex I of IEC 61347-1	l litte on _	N/A		
- (4)	Built-in electronic controlgear with double or reinforced insulation comply with Annex O of IEC 61347-1	(see Annex O)	N/A		
- (4)	SELV controlgear comply with Annex L of IEC 61347-1	(see Annex L)	Р		
6 (6)	CLASSIFICATION		Р		
	Built-in controlgear:	Yes □ No ⊠	_		
	Independent controlgear:	Yes □ No ⊠	_		
. 1	Integral controlgear:	Yes ⊠ No □	_		
. TAC 测形	(A)	· 有校测度的	THE CHAPTER		
7 (7)	MARKING		N/A		
7.1 (7.1)	Mandatory markings		N/A		
	a) mark of origin		N/A		
	b) model number or type reference		N/A		
	d) correlation between interchangeable parts and controlgear marked		N/A		
	e) rated supply voltage (V)		N/A		
	supply frequency (Hz)		N/A		
	supply current (A)		N/A		
	f) earthing symbol, if applicable	一	N/A		
1/51	k) wiring diagram	IST LCS Test	N/A		
	I) value of t _c		N/A		
	s) SELV symbol		N/A		
7.1 (-)	- control terminals identified, if applicable		N/A		
	- t _a alternative to t _c if independent		N/A		
	•				









Attachment No.4

L CS You	Allaciment in	9. 75	LCS 10	
Tests according to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021.				
Clause	Requirement + Test	Result - Remark	Verdict	
7.1 (7.2)	Marking durable and legible		N/A	
	Rubbing 15 s water, 15 s petroleum; marking legible		N/A	
7.2 (7.1)	Information to be provided, if applicable		N/A	
	h) declaration of protection against accidental contact	. ~ :mil F	N/A	
	i) cross-section of conductors (mm²)	I if his in	N/A	
- 124	j) number, type and wattage of lamp(s)	100	N/A	
7.1 (7.2)	Marking durable and legible		N/A	
	Rubbing 15 s water, 15 s petroleum; marking legible		N/A	

8 (10)	PROTECTION AGAINST ACCIDENTAL CONTAC	T WITH LIVE PARTS	N/A
- (10.1)	Controlgear protected against accidental contact with live parts	Protected by luminaire enclosure	N/A
- (A2)	Voltage measured with 50 kΩ	(see Annex A)	N/A
- (A3)	Voltage > 35 V peak or > 60 V d.c.	(see Annex A)	N/A
- (10.1)	Lacquer or enamel not used for protection or insulation	LCS Test	N/A
	Adequate mechanical strength on parts providing protection		NATE
- (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V:		N/A
- (10.3)	Controlgear providing SELV		N/A
	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear		N/A
	No connection between output circuit and the body or protective earthing circuit	立形位测图	N/A
122	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts		N/A
	SELV outputs separated by at least basic insulation		N/A
	ELV conductive parts insulated as live parts		N/A







立语检测股份	ab IST 立讯位	Attachment No	D.4 The in the Lab	
	Tests according to EN 6 ^o	1347-2-11:2001+A1:2019	9, EN 61347-1:2015+A1	:2021.
Clause	Requirement + Test		Result - Remark	Verdict

	Tests according Annex L of IEC 61347-1		N/A
- (10.4)	Accessible conductive parts in SELV circuits		N/A
	Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.		N/A
	If output voltage > 25 V r.m.s. or > 60 V d.c.;		N/A
	No load output \leq 35 V peak or \leq 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c.		支份 g Lab
	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V		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
一点:则股外	4条:测 R2 77	一种测度"的	- to : 1
			- 241 122 ·

9 (8)	TERMINALS		N/A
- (8.1)	Integral terminals		N/A
	Screw terminals according section 14 of IEC 60598-1	(see Annex 2)	N/A
	Screwless terminals according section 15 of IEC 60598-1	(see Annex 3)	N/A
- (8.2)	Terminals other than integral terminals		N/A
	Comply with relevant IEC standard	(see Annex 1)	N/A
	Suit the conditions		N/A
	Satisfy additional relevant requirements of this standard		N/A

10 (9)	PROVISION FOR PROTECTIVE EARTHING	N/A
- (9.1)	Provisions for protective earthing	N/A
	Terminal complying with clause 8	N/A
	Locked against loosening and not possible to loosen by hand	N/A







Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019	9, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdic
	Not possible to loosen clamping means unintentionally on screwless terminals		N/A
	All parts of material minimizing the danger of electrolytic corrosion		N/A
	Made of brass or equivalent material		N/A
	Contact surface bare metal		N/A
a ti	Test according 7.2.3 of IEC 60598-1	古语控 ^{测度}	N/A
- (9.2)	Provision for functional earthing	- LCS LOST	N/A
	Comply with clause 8 and 9.1		N/A
	Functional earth insulated from live parts by double or reinforced insulation		N/A
- (9.3)	Lamp controlgear with conductors for protective circuit board	ve earthing by tracks on printed	N/A
	Test with a current of 25 A between earthing terminal or earthing contact and each of the accessible metal parts;		N/A
	measured resistance (Ω) at \geq 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω :	· 讯检测股份	三洲位置
- (9.4)	Earthing of built-in lamp controlgear	LCS Testilis	N/A
	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1		N/A
	Earthing terminal only for earthing the built-in controlgear		N/A
- (9.5)	Earthing via independent controlgear		N/A
- (9.5.1)	Earth connection to other equipment		N/A
	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent		N/A
ル ド	Protective earthing wires in line with 5.3.1.1 and clause 7 of IEC 60598-1	立 訊检测用	N/A
- (9.5.2)	Earthing of the lamp compartments powered via th	ne independent lamp controlgear	N/A
	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal or earthing contact and each of the accessible metal parts at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω		N/A







立语检测版(Attachment N	O.4 The 测度的	
	Tests according to EN 61347-2-11:2001+A1:201	9, EN 61347-1:2015+A1:20	021.
Clause	Requirement + Test	Result - Remark	Verdict
	Output earthing terminal marked as in 7.1 t) of IEC 61347-1		N/A

11 (11)	MOISTURE RESISTANCE AND INSULATION	MOISTURE RESISTANCE AND INSULATION	
After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance:		P	
	For basic insulation ≥ 2 MΩ:		N/A
1/50	For double or reinforced insulation $\geq 4~\text{M}\Omega$:	LCS Testin	N/A
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1		N/A

12 (12)	ELECTRIC STRENGTH	Р
	Immediately after clause 11 electric strength test for 1 min	Р
	Basic insulation for SELV, test voltage 500 V	Р
THE PERMIT	Working voltage ≤ 50 V, test voltage 500 V	N/A
立语检测的	Working voltage > 50 V ≤ 1000 V, test voltage (V):	N/A
LCS 1	Basic insulation, 2U + 1000 V	N/A
	Supplementary insulation, 2U + 1000 V	N/A
	Double or reinforced insulation, 4U + 2000 V	N/A
	No flashover or breakdown	Р
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	N/A

14 (14)	FAULT CONDITIONS		P
- (14.1)	When operated under fault conditions the controlgear:	二四位测用	ž ^{į())} P
VS	- does not emit flames or molten material	LCS Testin	Р
	- does not produce flammable gases		Р
	- protection against accidental contact not impaired		Р
	Thermally protected controlgear does not exceed the marked temperature value		N/A



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Attachment No.4

7 / Co .		41-7-Co. M.O.	
	Tests according to EN 61347-2-11:2001+A1:2019), EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdict
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	Р
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	N/A
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	N/A
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	Р
- (14.6)	After the tests has been carried out on three samp	les:	Р
	The insulation resistance \geq 1 M Ω :	>100 MΩ	Р
	No flammable gases		Р
	No accessible parts have become live		Р
拉测股份	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	工绘测度份	P The interest of the interest
- (14.7)	Relevant fault condition tests with high-power a.c. supply	LCS Testing La	_

15 (15)	CONSTRUCTION	N/A
- (15.1)	Wood, cotton, silk, paper and similar fibrous material	N/A
	Wood, cotton, silk, paper and similar fibrous material not used as insulation	N/A
- (15.2)	Printed circuits	N/A
	Printed circuits used as internal connections complies with clause 14	N/A
- (15.3)	Plugs and socket-outlets used in SELV or ELV circuits	N/A
E	No dangerous compatibility between output socket-outlet and a plug for socket-outlets for input circuit in relation to installation rules, voltages and frequencies	N/A
	Plugs and socket-outlets for SELV comply with IEC 60906-3 and IEC 60884-2-4	N/A









	Tests according to EN 61347-2-11:2001+A1:2019	9, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdict
	Plugs and socket-outlets for SELV \leq 3 A, \leq 25 V r.m.s. or \leq 60 V d.c. and \leq 72 W comply with IEC 60906-3 and IEC 60884-2-4 or:		N/A
	- plugs not able to enter socket-outlets of other standardised system		N/A
	- socket-outlets not admit plugs of other standardised system	7	N/A
VSL TIV	- socket-outlets without protective earth	Till Testin	N/A
- (15.4)	Insulation between circuits and accessible part	ts	N/A
- (15.4.2)	SELV circuits		N/A
	Source used to supply SELV circuits:		N/A
	- safety isolating transformer in accordance with relevant part 2 of IEC 61558		N/A
	- controlgear providing SELV in accordance with relevant part 2 of IEC 61347		N/A
	- another source		N/A
·人:IIII B安份	Voltage in the circuit not higher than ELV	人间接价	N/A
立列 ^{Mund} LCS Testing La	SELV circuits insulated from LV by double or reinforced insulation	立洲 ^在 LCS Testing Lab	N/A
	SELV circuits insulated from non SELV circuits by double or reinforced insulation		N/A
	SELV circuits insulated from FELV circuits by supplementary insulation		N/A
	SELV circuits insulated from other SELV circuits by basic insulation		N/A
	SELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5		N/A
- (15.4.3)	FELV circuits	- U.A.	N/A
一工工	Source used to supply FELV circuits:	立语检测	N/A
AST LC	- separating transformer in accordance with relevant part 2 of IEC 61558	184 LCS 10	N/A
	- separating controlgear providing basic insulation between input and output circuits in accordance with relevant part 2 of IEC 61347		N/A
	- another source		N/A





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Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdic
	- source in circuits separated by the LV supply by basic insulation		N/A
	Voltage in the circuit not higher than ELV		N/A
	FELV circuits insulated from LV supply by at least basic insulation		N/A
- ° °	FELV circuits insulated from other FELV circuits if functional purpose	- 河检测图	N/A
187 rc	FELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5	LCS Testin	N/A
	Plugs and socket-outlets for FELV system comply	with:	N/A
	- plugs not able to enter socket-outlets of other voltage systems		N/A
	- socket-outlets not admit plugs of other voltage systems		N/A
	- socket-outlets have a protective conductor contact		N/A
- (15.4.4)	Other circuits	- A II S	N/A
立语检测短见 LCS Testing Lal	Insulation between circuits other than SELV or FELV and accessible conductive parts in according Table 6 in 15.4.5.	立识检测版社。 LCS Testing Lab	N/A
- (15.4.5)	Insulation between circuits and accessible conduct	tive parts	N/A
	Accessible conductive parts insulated from active parts of electric circuits by insulating according Table 6		NÆ,
	Requirements for Class II construction with equipo against indirect contact with live parts:	tential bonding for protection	N/A
	- all conductive parts are connected together		N/A
	- conductive parts are reliably connected together according test of IEC 60598-1 cl. 7.2.3	- TIME	N/A
NEA LO	- conductive parts comply with requirements of Annex A in case of insulation fault	15 LCS Testin	N/A

16 (16)	CREEPAGE DISTANCES AND CLEARANCES	N/A	
- (16)	Creepage distances and clearances according to 16.2 and 16.3	N/A	







Attachment No.4

Report No.: LCSB07194027S

LCS 1	S Attachment IN	9.7ts 1	5/1 LCS 10
	Tests according to EN 61347-2-11:2001+A1:201	9, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdict
	Controlgears providing SELV comply with additional requirements in Annex L		N/A
	Insulating lining of metallic enclosures		N/A
	Controlgear protected against pollution comply with Annex P		N/A
- (16.2)	Creepage distances		N/A
- (16.2.2)	Minimum creepage distances for working voltages	立语检查	N/A
1150	Creepage distances according to Table 7	(see appended table)	N/A
- (16.2.3)	Creepage distances for working voltages with frequencies above 30 kHz		N/A
	Creepage distances according to Table 8	(see appended table)	N/A
- (16.3)	Clearances	•	N/A
- (16.3.2)	Clearances for working voltages		N/A
	Clearances distances according to Table 9	(see appended table)	N/A
- (16.3.3)	Clearances for ignition voltages and working voltages	ges with higher frequencies	N/A
.人:111111111111111111111111111111111111	Clearances distances for basic or supplementary insulation according to Table 10	(see appended table)	N/A
LCS Testing Li	Clearances distances for reinforced insulation according to Table 11	(see appended table)	N/A

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	
	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	
(4.11)	Electrical connections	N/A
(4.11.1)	Contact pressure	
(4.11.2)	Screws:	N/A
	- self-tapping screws	N/A
	- thread-cutting screws	N/A
(4.11.3)	Screw locking:	N/A
	- spring washer	N/A
	- rivets	N/A
(4.11.4)	Material of current-carrying parts	Р
(4.11.5)	No contact to wood or mounting surface	Р





Attachment No.4

Attachinent N	19.75°	SA CS 10
Tests according to EN 61347-2-11:2001+A1:20	19, EN 61347-1:2015+A1:2021.	
Requirement + Test	Result - Remark	Verdict
Flortro machanical contact quetoms		N/A
<u> </u>		P IN/A
Mechanical connections and glands		<u> </u>
Screws not made of soft metal		Р
Screws of insulating material		N/A
Torque test: torque (Nm); part	Fixed PCB of controller: 0,5Nm	P
Torque test: torque (Nm); part	b 六讯位别	N/A
Torque test: torque (Nm); part	ST LCS Tes	N/A
Screws with diameter < 3 mm screwed into metal		N/A
Locked connections:		N/A
- fixed arms; torque (Nm)		N/A
- lampholder; torque (Nm)		N/A
- push-button switches; torque 0,8 Nm		N/A
Screwed glands; force (Nm)		N/A
DECISIANCE TO LIEAT FIDE AND TRACKING		
RESISTANCE TO HEAT, FIRE AND TRACKING		Р
	Tests according to EN 61347-2-11:2001+A1:20 Requirement + Test Electro-mechanical contact systems Mechanical connections and glands Screws not made of soft metal Screws of insulating material Torque test: torque (Nm); part	Electro-mechanical contact systems Mechanical connections and glands Screws not made of soft metal Screws of insulating material Torque test: torque (Nm); part

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
- (18.1)	Ball-pressure test	See Test Table 18 (18.1)	TIP
- (18.2)	Test of printed boards:	See Test Table 18 (18.2)	rcab
- (18.3)	Glow-wire test	See Test Table 18 (18.3)	N/A
- (18.4)	Needle flame test	See Test Table 18 (18.4)	Р
- (18.5)	Tracking test:	See Test Table 18 (18.5)	N/A

19 (19)	RESISTANCE TO CORROSION	N/A
	- test according 4.18.1 of IEC 60598-1	N/A
	- adequate varnish on the outer surface	N/A

20 (-)	ANNEXES		₃√∂N/A
A Pag Ic	Comply with appropriate annexes of IEC 61347-1	(see Annexes)	N/A

14	TABLE: tests of fault conditions	Р
Part	Simulated fault	Hazard
Output	Short circuit: Test result: Unit shut down immediately, no damage, recoverable	NO



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	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

*indicated that the fusing resistor opened and relevant test repeat 10 times, each test have the same testing result.

16 (16)	16 (16) TABLE: creepage distance and clearance		d clearance	(mm)		N/A	
		Applic	able part of IE	C 61347-1 T	able 7 – 11*		
Distances	Insulation	Measured	Required		Measured	Requir	ed
	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:							
Working volt	tage (V)			:			_
Frequency if	f applicable	(kHz)		:			_
					< 600 🗆	≥ 600 □	_
Peak value of the working voltage Û _{out} if applicable (kV):						_	
Pulse voltage if applicable (kV)							
Supplement	ary informati	on:					
Distance 2:	份 Lab		金测股给		古王拉利股份		上讯检测图
Working volt	tage (V)	1186 68	Lez _{fille}		CS Testing	N.	_
Frequency if	fapplicable	(kHz)				73	
PTI				:	< 600 🗌	≥ 600 □	
Peak value	of the worki	ng voltage Û _{out} i	f applicable (k\	V):			
Pulse voltag	e if applicat	ole (kV)		:			_
Supplement	ary informat	on:					
Distance 3:							
Working volt	tage (V)			:			_
Frequency if	fapplicable	(kHz)		:			
PTI		gh		grafizilli like 10° ab	< 600 🗌	≥ 600 □	<u> </u>
Peak value	of the worki	ng voltage Û _{out} i	f applicable (k\	V) Testille		VISA LOSTES	<u> </u>
Pulse voltag	e if applicat	ole (kV)		:			_
Supplementa	ary informati	on:					

^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced



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	Tests according to EN 61347-2-11:2001+A1:2019), EN 61347-1:2015+A1:2021.	100
Clause	Requirement + Test	Result - Remark	Verdict

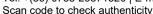
18 (18.1) TABLE: Ball Pressure Test of Thermoplastics				
on diameter (m	m):	2,0mm		_
		Test temperature (°C)	Impression diamete	er (mm)
ting Lab Se	e Annex 1	125	0,6	g Lab
	on diameter (mi aterial Ma tra	on diameter (mm):	aterial Manufacturer/ Test temperature (°C)	aterial Manufacturer/ Test temperature (°C) Impression diameter trademark

18 (18.2)	TABLE: Test of printed boards		Р		
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
PCB of controller	See Annex 1	30	No	0	Р
Supplementar	y information:	an th		n.#A	

- 11/10 IV.	Lab		20		Table Lab		
18 (18.3)	TABLE:	Glow-wire test (IEC 606	95-2-1	1) \(\sigma_1 \)	LCS Testing	1/5/	N/A
Glow wire t	emperat	ure	:	650°C			
Object/ Part Material	No./	Manufacturer/ trademark	арр	Duration of lication of test ame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb)	Verdict
Supplement	ary inforn	nation:	'		,	,	

18 (18.4) TABLE: Needle-flame test (IEC 60695-11-5)					a Lab P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer	Duration of burning (tb)	Verdict
PCB of controller	See Annex 1	30	No	0	Р











Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdict

Supplementary information:

18 (18.5) TABLE: Proof tracking test (IEC 60112)			N/A			
Test voltage PTI: 175 V			_			
Object/ Part No./ Material Manufacturer/ Withstand 50 drops without failure on three places or on three specimens		Verdict				
- 15	P					
Supplementary information:						

(A)	ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK	
(A.1)	Comply with A.2 or A.3	N/A
(A.2)	Voltage ≤ 35 V peak or ≤ 60 V d.c:	N/A
(A.3)	If voltage measured according Clause A.2 exceeds the limit value;	N/A
LCS Testing L	touch current does not exceed 0,7 mA (peak) or 2 mA d.c	立 iff Testi

(C)	ANNEX C – PARTICULAR REQUIREMENTS FOR ELECTRONIC LAMP CONTROLGEAR WITH MEANS OF PROTECTION AGAINST OVERHEATING		N/A
(C3)	GENERAL REQUIREMENTS		N/A
(C3.1)	Thermal protection means integral with the convertor, protected against mechanical damage		N/A
	Renewable only by means of a tool		N/A
_ 1	If function depending on polarity, for cord- connected equipment protection means in both leads	在飛燈測像	N/A
1/5/1	Thermal links comply with IEC 60691	LCS Test	N/A
	Electrical controls comply with IEC 60730-2-3		N/A
(C3.2)	No risk of fire by breaking (clause C7)		N/A
(C5)	CLASSIFICATION		N/A
	a) automatic resetting type		_









Attachment No.4

Clause	Requirement + Test	Result - Remark	Verdic
			1
	b) manual resetting type		
	c) non-renewable, non-resetting type		_
	d) renewable, non-resetting type		_
	e) other type of thermal protection; description:		_
(C6)	MARKING		N/A
(C6.1)	Symbol for temperature declared thermally protected ballasts	IST 立语检测	N/A
(C6.2)	Declaration of the type of protection provided		N/A
(C7)	LIMITATION OF HEATING		N/A
(C7.1)	Preselection test:		N/A
	Test sample placed for at least 12 h in an oven having temperature (t_{c} - 5) K		N/A
	No operation of the protection device		N/A
(C7.2)	Functioning of protection means:		N/A
立语检测股份 如	Normal operation of the sample in a test enclosure according to Annex D at an ambient temperature such that (t _c +0; -5) °C is obtained	女讯检测股份 ti和检测g Lab	N/A
LC5 Testing	No operation of the protection device	LC5 To STILL	N/A
	Introducing of the most onerous test condition determined during test of clause 14.2 to 14.5		N/A
	Output of windings connected to the mains supply short-circuited, and other part of the controlgear operated under normal conditions		N/A
	Increasing of the current through the windings continuously until operation of the protection means		N/A
	Continuous measuring of the highest surface temperature	~ 檢測	N/A
MET !	Ballasts according to C5 a) or C5 e) operated until stable conditions are achieved	15. LCS Testi	N/A
	Automatic-resetting thermal protectors working 3 times		N/A
	Ballasts according to C5 b) working 6 times		N/A
	Ballasts according to C5 c) and C5) d) working once		N/A







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	Tests according to EN 61347-2-11:2001+A1:2019	9, EN 61347-1:2015+A1:2021.	_
Clause	Requirement + Test	Result - Remark	Verdict
	Highest temperature does not exceed the marked value		N/A
	Any overshoot of 10% over the marked value within 15 min		N/A
	After 15 min value not exceed marked value		N/A
(D)	ANNEX D - REQUIREMENTS FOR CARRY OUT T THERMALLY PROTECTED LAMP CONTROLGEA		N/A
153	Tests in C7 performed in accordance with Annex D, if applicable	The total	N/A
(F)	ANNEX F - DRAUGHT-PROOF ENCLOSURE		N/A
	Draught-proof enclosure in accordance with the description		N/A
	Dimensions of the enclosure		N/A
	Other design; description		N/A
(H)	ANNEX H - TESTS	可检测股份	N/A
LCS Testing	All tests performed in accordance with the advice given in Annex H, if applicable	LCS Testing	N/A
(1)	ANNEX I – ADDITIONAL REQUIREMENTS FOR B	BUILT-IN MAGNETIC BALLASTS	N/A
(1.6)	Symbol on ballasts with double or reinforced insulation		N/A
	Symbol explained in manufacturers catalogue		N/A
(1.9)	No protective earthing terminal		N/A
(l.12)	Devices for limiting the temperature bridged		—
	After the test according clause 13		N/A
-	At least six of seven ballast start the lamp and the current not exceed 115%	- 田位測	N/A
1/21	Insulation resistance not less than 4 $M\Omega$ between winding and case for all ballasts	LCS Test	N/A
	All ballasts withstand electric strength test reduced to 35% of values in Table 1 of IEC 61347-1		N/A
(I.15)	Built-in ballasts with double or reinforced insulation comply with corresponding values of creepage and clearances in IEC 60598-1		N/A











Attachment No.4

100	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	100
Clause	Requirement + Test	Result - Remark	Verdict

(L)	ANNEX L: PARTICULAR ADDITIONAL REQUIREM PROVIDING SELV	MENTS FOR CONTROLGEARS	N/A
(L.3)	Classification		N/A
	Class I	Yes No	_
	Class II	Yes No No	_
İ	Class III	Yes No No	_
184	non-inherently short circuit proof controlgear	Yes No No	_
	inherently short circuit proof controlgear	Yes No	_
	fail safe controlgear	Yes □ No □	_
	non-short-circuit proof controlgear	Yes No	_
(L.4)	Marking		N/A
	Adequate symbols are used		N/A
(L.5)	Protection against electric shock		N/A
arel	Comply with clause 9.2 of IEC 61558-1		N/A
(L.6)	Heating	古洲位 Ming Lab	N/A
LCS Tes	No excessive temperatures in normal use	LCS TOS	N/A
	Value if capacitor t _c marked:		_
	Winding insulation classified as Class:		_
	Comply with tests of clause 14 of IEC 61558-1 with adjustments		N/A
(L.7)	Short-circuit and overload protection		N/A
	Comply with tests of clause 15 of IEC 61558-1 with adjustments		N/A
(L.8)	Insulation resistance and electric strength		N/A
(L.8.1)	Conditioned 48 h between 91 % and 95 %	士·开检测	N/A
(L.8.2)	Insulation resistance	LCS Test	N/A
	Between input- and output circuits not less than 5 $M\Omega$		N/A
	Between metal parts of class II convertors which are separated from live parts by basic insulation only and the body not less than 5 M Ω :		N/A







Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdic
	Between metal foil in contact with the inner and outer surfaces of enclosures of insulating material not less than 2 M Ω		N/A
(L.8.3)	Electric strength		N/A
	Between live parts of input circuits and live parts of output circuits:		N/A
ند.	2) Over basic or supplementary insulation between:	上 流流测	N/A
1154	a) live parts having different polarity:	157 LCS Test	N/A
	b) live parts and body if intended to be connected to protective earth		N/A
	c) accessible metal parts and a metal rod of the same diameter as the flexible cable or cord:		N/A
	d) live parts and an intermediate metal part		N/A
	e) intermediate metal parts and the body:		N/A
	f) each input circuit and all other input circuits:		N/A
a mil AG	3) Over reinforced insulation between the body and live parts:	~ mi BE 15	N/A
(L.9) (L.9)	Construction	立语和 Lab	N/A
(L.9.1)	Transformer comply with 19.12 of IEC 61558-1 and 19 of IEC 61558-2-6	150	N/A
	HF transformer comply with 19 of IEC 61558-2-16		N/A
(L.10)	Components		N/A
	Protective devices comply with 20.6 – 20.11 of IEC 61558-1		N/A
(L.11)	Creepage distances, clearances and distances t	hrough insulation	N/A
	Creepage distances and clearances not less than in Clause 16		N/A
۷.	Distance through insulation according Table L.5 in I	EC 61347-1	N/A
1151	1) Basic distance through insulation	LCS Testi	N/A
	Required distance (mm):		_
	Measured (mm)		N/A
	Supplementary information		
	2) Supplementary distance through insulation		N/A









I CS TES	S Allacillicit N	U.4 ₅ 165	SA LCS TOS
Tests according to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021.			7
Clause	Requirement + Test	Result - Remark	Verdict
	Required distance (mm):		_
	Measured (mm):		N/A
	Supplementary information		_
	3) Reinforced distance through insulation		N/A
	Required distance (mm)		
	Measured (mm):	。 一	N/A
YEL	Supplementary information	1 ST LCS Tes	_

(N)	ANNEX N: REQUIREMENTS FOR INSULATION MATERIALS USED FOR DOUBLE OR REINFORCED INSULATION	
(N.4)	General requirements	
(N.4.1)	Material comply with IEC 60085 and IEC 60216 series	N/A
(N.4.2)	Solid insulation	
-mi BG (Electric strength test at least 5 kV or 1,35 x test voltage in Table N.1	N/A
立语 ^{他们的} LCS Testing I	If not classified according IEC 60085 and IEC 60216 series: Electric strength test increased 10 % of 5,5 kV or 1,5 x test voltage in Table N.1	N/A
(N.4.3)	Thin sheet insulation	
(N.4.3.1)	Thickness and composition of thin sheet insulation	
	- Inside the ballast and not subjected to handling or abrasion during the production and during maintenance	N/A
	- Non-separated layers: Min. 3 layers and fulfil mandrel test of 150N	N/A
	- Separated layers: Min. 2 layers and each layer fulfil mandrel test of 50N	N/A
184	- Separated layers (alternative): Min. 3 layers and 2/3 of the layers fulfil mandrel test of 100N	N/A
(N.4.3.2)	Mandrel test (electric strength test during mechanical stress)	
	Electric strength test after mandrel test:	
	- Non-separated layers: min. 5 kV or 1,35 x test voltage in Table N.1	N/A









Attachment No.4

	As a second of the second of t	7 / C2 /		
Tests according to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021.				
Clause	Requirement + Test	Result - Remark	Verdict	
	- 2/3 of min. 3 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1		N/A	
	- one of 2 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1		N/A	
	No flashover or breakdown occurred		N/A	

(O)	ANNEX O: ADDITIONAL REQUIREMENTS FOR BUILT-IN ELECTRONIC CONTROLGEAR WITH DOUBLE OR REINFORCED INSULATION		N/A
(O.6)	Marking		N/A
	Marking according clause 7 (7)	See clause 7	N/A
	Special symbol		N/A
	Meaning of the special symbol explained in catalogue		N/A
(O.7)	Protection against accidental contact with live parts		N/A
	Requirements of clause 8 (10)	See clause 8	N/A
· A SMILES (1)	Test finger not possible to make contact with basic insulated metal parts	、	N/A
(O.8)	Terminals	Till Testing Lab	N/A
res .	Clause 9 (8)	See clause 9	N/A
(O.9)	Provision for earthing		N/A
	Functional earthing terminals comply with clause 9 of part 1		N/A
	No protective earthing terminal		N/A
(O.10)	Moisture resistance and insulation		N/A
	Clause 11 (11)	See clause 11	N/A
(O.11)	Electric strength		N/A
	Clause 12 (12)	See clause 12	N/A
(O.13)	Fault conditions		N/A
	Clause 14 (14)	See clause 14	N/A
	End of test, between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface comply with dielectric strength test reduced to 35 % of values according Table 1 in part 1		N/A







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	Tests according to EN 61347-2-11:2001+A1:2019	9, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdic
	Insulation resistance according to O.10 between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface not less than 4 $M\Omega$		N/A
(O.14)	Construction		N/A
	Clause 17 (15)	See clause 17	N/A
VSI TI	Accessible metal parts insulated from live parts by double or reinforced insulation	TST 立讯检测	N/A
	Live part insulated from supporting surface in contact with external faces by double or reinforced insulation		N/A
(O.15)	Creepage distances and clearances		N/A
	Clause 18 (16)	See clause 18	N/A
	Comply with corresponding values for luminaries in IEC 60598-1		N/A
(O.16)	Screws, current-carrying parts and connections		N/A
	Clause 19 (17)	See clause 19	N/A
(O.17)	Resistance to heat and fire	五元 Sting Lab	N/A
LCS	Clause 20 (18)	See clause 20	N/A
(O.18)	Resistance to corrosion		N/A
	Clause 21 (19)	See clause 21	NA
(P)	Creepage distances and clearances and distance through isolation (DTI) for lamp controlgear which are protected against pollution by the use of coating or potting		N/A*
(P.1)	General		N/A
	P.2 applies if creepage distances less than the minimum in Table 7 and 8	liffe	N/A
151 10	P.3 applies if clearance less than the minimum in Table 9, 10 and 11	LCS TEST	N/A
(P.2)	Creepage distances		N/A
(P.2.2)	Minimum creepage distances for working voltages and rated voltages with frequencies up to 30 kHz (Table P.1)		N/A
	Basic or supplementary insulation:		N/A
	Required creepage:		_







Attachment No.4

	Tests according to EN 61347-2-11:2001+A1:2019	, EN 61347-1:2015+A1:2021.	
Clause	Requirement + Test	Result - Remark	Verdic
	Measured:		N/A
	Supplementary information		_
	Reinforced insulation:		N/A
	Required creepage:		_
	Measured:		N/A
<u>ن</u> ن	Supplementary information	上 讯检测	<u>—</u>
(P.2.3)	Creepage distances for working voltages with frequencies above 30 kHz (Table P.2)		N/A
	Voltage Û _{out} kV:		_
	Frequency:		
	Required distance:		_
	Measured:		N/A
	Supplementary information		_
(P.2.4)	Compliance with the required creepage distances		N/A
(P.2.4.1)	Compliance in accordance with 16.3.3 and test according P.2.4.2	方讯检测股份	N/A
(P.2.4.3)	Electrical tests after conditioning	LCS Test	N/A
(P.2.4.3.1)	Insulation resistance and electric strength according Clause 11 and 12		N/A
(P.3)	Distance through isolation		N/A
(P.3.4)	Electrical tests after conditioning		N/A
(P.3.4.1)	Insulation resistance and electric strength according Clause 11 and 12		N/A
(P.3.4.2)	Impulse voltage dielectrical test		N/A
	Basic or supplementary insulation:		N/A
_ +17	Working/rated voltage	一一开位测	_
1 ST LC	Impulse voltage	151 LCSTest	N/A
	Supplementary information		
	Reinforced insulation:		N/A
	Working/rated voltage		_
	Impulse voltage:		N/A









Attachment No.4

WS CS ALLACI II	ment No.4	
ests according to EN 61347-2-11:2	001+A1:2019, EN 61347-1:2015+A1:2021	1.
equirement + Test	Result - Remark	Verdict
	ests according to EN 61347-2-11:2 equirement + Test	ests according to EN 61347-2-11:2001+A1:2019, EN 61347-1:2015+A1:2021 equirement + Test Result - Remark









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LCS Testing Lab



Attachment No.5

Photo Documentation

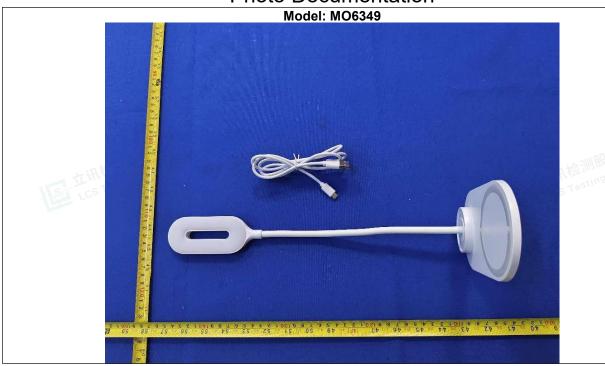


Photo 1

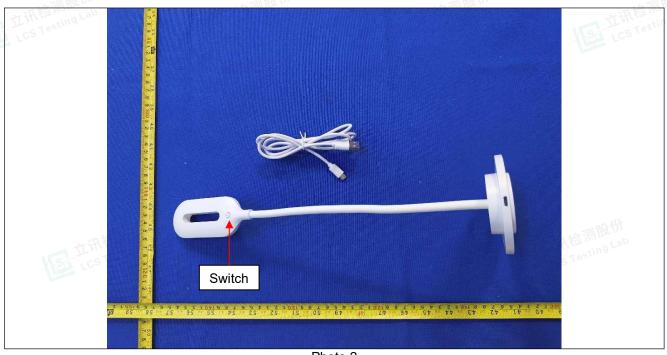


Photo 2





Attachment No.5

Photo Documentation



Photo 3



Photo 4



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Attachment No.5

Photo Documentation



Photo 5

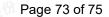


Photo 6



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Attachment No.5

Photo Documentation

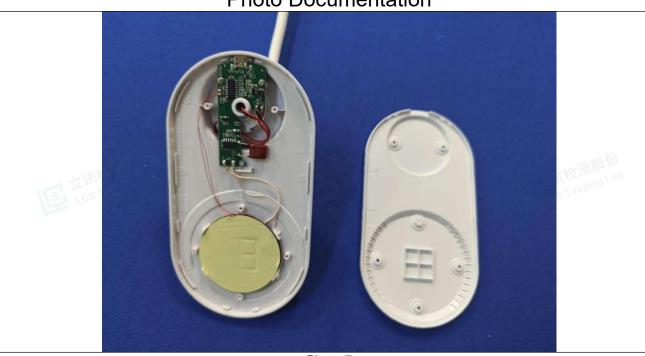


Photo 7

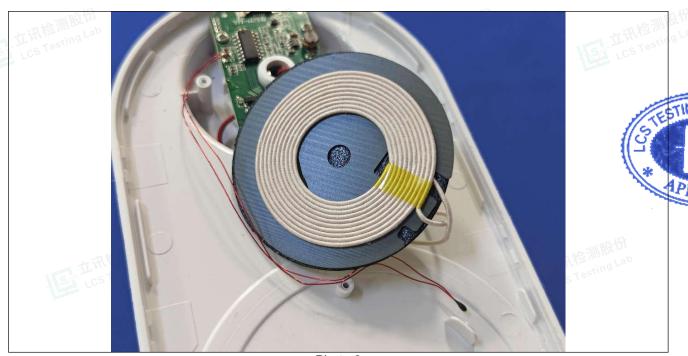
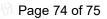


Photo 8







Attachment No.5

Photo Documentation



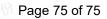
Photo 9



Photo 10



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Attachment No.5

Photo Documentation



Photo 11



Photo 12

-----End of Test Report-----

