

TEST REPORT EN 60598-2-20 Luminaires Part 2: Particular requirements: Section Twenty – Lighting chains	
Report Number	22ZCTB0523014SP
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Testing Laboratory	Shenzhen ZCT Technology Co., Ltd.
Address	3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
Applicant's name	Wenzhou Yijie Electric Co., Ltd
Address	No. 83, Fengquan Road, Tianhe street, Wenzhou Economic and Technological Development Zone, Wenzhou City, Zhejiang Province
Test specification:	
Standard	Fpr EN IEC 60598-2-20:2021 used in conjunction with EN IEC 60598-1:2021
Test procedure	LVD
Non-standard test method	N/A
Test Report Form No	IEC60598_2_20B
Test Report Form(s) Originator	Intertek Semko AB
Master TRF	2016-04
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Test item description	Luce Natale
Trade Mark	N/A
Manufacturer	Wenzhou Yijie Electric Co., Ltd No. 83, Fengquan Road, Tianhe street, Wenzhou Economic and Technological Development Zone, Wenzhou City, Zhejiang Province
Model/Type reference	04133 04101, 04102, 04103, 04104, 04105, 04106, 04107, 04108, 04109, 04110, 04111, 04112, 04113, 04114, 04115, 04116, 04117, 04118, 04119, 04120, 04121, 04122, 04123, 04124, 04125, 04160, 04161, 04162, 04126, 04127, 04128, 04129, 04130, 04131, 04132, 04134, 04135, 04136, 04137, 04138, 04139, 04140, 04141, 04142, 04143, 04144, 04145, 04146, 04147, 04148, 04149, 04150, 04151, 04152, 04153, 04154, 04155, 04156, 04157, 04158, 04159
Ratings	Input:220-240V~, 50/60Hz, 9W, Class II



Testing procedure and testing location:	
<input checked="" type="checkbox"/> Testing Laboratory:	Shenzhen ZCT Technology Co., Ltd.
Testing location/ address..... :	3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
<input type="checkbox"/> Associated Laboratory:	
Testing location/ address..... :	
Tested by (name + signature)..... :	Mage Li 
Reviewer by (name + signature)..... :	Wilson Wei 
Approved by (+ signature)..... :	Tomy Wu 
<input type="checkbox"/> Testing procedure: TMP	
Testing location/ address..... :	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
<input type="checkbox"/> Testing procedure: WMT	
Testing location/ address..... :	
Tested by (name + signature)..... :	
Witnessed by (+ signature)..... :	
Approved by (+ signature)..... :	
<input type="checkbox"/> Testing procedure: SMT	
Testing location/ address..... :	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
Supervised by (+ signature)..... :	
<input type="checkbox"/> Testing procedure: RMT	
Testing location/ address..... :	
Tested by (name + signature)..... :	
Approved by (+ signature)..... :	
Supervised by (+ signature)..... :	



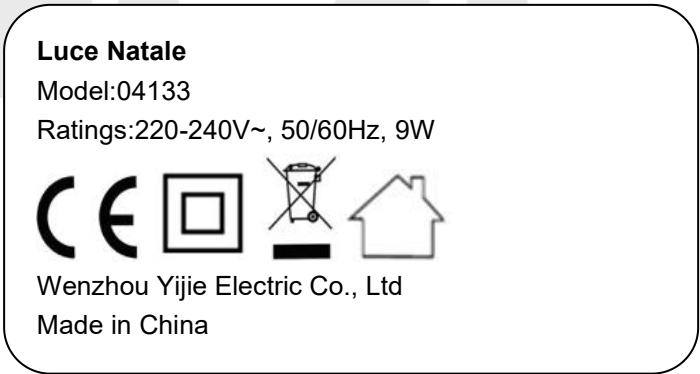
List of Attachments (including a total number of pages in each attachment):
 Attachment 1: European Group Differences And National Differences for Fpr EN IEC 60598-2-20:2021 used in conjunction with EN IEC 60598-1:2021 (including 3 pages).
 Attachment 2: photo documentation.(including 2 pages)

Summary of testing:
 All the tests fulfil with the requirements of standards.

Tests performed (name of test and test clause): Part tests	Testing location: Shenzhen ZCT Technology Co., Ltd. 3/F., Building 5, Hongsheng Industrial Zone, Bao'an Road, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China.
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Summary of compliance with National Differences:
 List of countries addressed:
 Group differences.
 The product fulfils the requirements of Fpr EN IEC 60598-2-20:2021 used in conjunction with EN IEC 60598-1:2021.

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.



Remarks:
 1. Representative markings of 04133, markings of all models are identical except for the model name and rating.
 2. 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.



Test item particulars:	
Classification of installation and use.....:	Lighting Chains
Supply Connection.....:	Plug
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing:	
Date of receipt of test item.....:	2022-05-12
Date (s) of performance of tests.....:	2022-05-12 to 2022-05-27

General remarks:	
<p>The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a comma is used as the decimal separator. Clause numbers between brackets refer to clauses in IEC 60598-1 All relevant CTL decisions have been evaluated already. Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.</p>	
Manufacturer's Declaration per sub-clause 6.2.5 of IEC 60598-1:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Same as applicant above	
General product information:	
- All models have similar appearance except size and power are difference. - Unless otherwise specified, the model 04133 was chosen as representative model to perform all test.	




EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict

20.3 (0)	GENERAL TEST REQUIREMENTS		P
20.3 (0.1)	Information for luminaire design considered	Standard Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
20.3 (0.3)	More sections applicable.....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—

20.5 (2)	CLASSIFICATION		P
20.5 (2.2)	Type of protection (Class 0 excluded).....	Class II	—
20.5 (2.3)	Degree of protection (Requirement: Ordinary).....	IP20	—
20.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces.....	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire not suitable for direct mounting on normally flammable surfaces.....	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
20.5 (2.5)	Luminaire for normal use	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
20.5.1	Class II or Class III	Class II	P
20.5.2	Chain for outdoor use shall be Rain-proof, splash-proof, jet-proof or watertight		P
20.5.3	Protection against dust, solid objects and moisture(for outdoor use IP 44 or higher)	IPX0	N/A

20.6 (3)	MARKING		P
20.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
20.6 (3.3)	Additional information	User manual provided	P
	Language of instructions	English	P
20.6 (3.3.1)	Combination luminaires	Not Combination luminaires	N/A
20.6 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
20.6 (3.3.3)	Operating temperature	25°C	P
20.6 (3.3.4)	Symbol or warning notice		P
20.6 (3.3.5)	Wiring diagram		P
20.6 (3.3.6)	Special conditions		N/A
20.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
20.6 (3.3.8)	Limitation for semi-luminaires		N/A
20.6 (3.3.9)	Power factor and supply current		P
20.6 (3.3.10)	Suitability for use indoors		P



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict
20.6 (3.3.11)	Luminaires with remote control		P
20.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
20.6 (3.3.13)	Specifications of protective shields		N/A
20.6 (3.3.14)	Symbol for nature of supply	~	P
20.6 (3.3.15)	Rated current of socket outlet		N/A
20.6 (3.3.16)	Rough service luminaire		N/A
20.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments		N/A
20.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
20.6 (3.3.19)	Protective conductor current in instruction if applicable		N/A
20.6 (3.3.20)	Provided with information if not intended to be mounted within arms reach		N/A
20.6 (3.4)	Test with water	15S	P
	Test with hexane	15S	P
	Legible after test		P
	Label attached		P
20.6.1 (-)	Adequate marking		P
20.6.2 (-)	Marking on the chain(rated voltage and wattage of the complete chain)		P
20.6.3 (-)	Marking “FOR INDOOR USE ONLY” or symbol 		P
20.6.4(-)	Packing or instruction marking		P
	a)For all lighting chains where the packing has not been adapted for display purposes- “Do not connect the chain to the supply while it is in the packing”.		P
	b)For lighting chains with replaceable lamps		N/A
	-Voltage and wattage or manufacturer’s article number of replacement lamps		N/A
	- “Do not remove or insert lamps while the chain is connected to the supply”		P
	- “Enclosure that all lampholders are fitted with a lamp”		P
	c) Lighting chains designed to be used without a lamp in every lampholder		P
	- adequate information about required blanking plug		P
	d)For chains with replaceable series-connected lamps		P



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Clause	Requirement + Test	Result - Remark	Verdict
	e)For lighting chains with “fuse” lamp		N/A
	- “Do not replace a “fuse” lamp with a non-”fuse” lamp		N/A
	- information indicating that the chain is provided with “fuse” lamps and explanation of their function		N/A
	f)For lighting chains with non-replaceable lamps		N/A
	g)For class II lighting chains with non-replaceable lamps		P
	h)Gaskets “WARNING - This Lighting Chain Must Not Be Used Without All Gaskets Being In Place”		N/A
	i)For lighting chains intended for interconnection		N/A
	- “Do not interconnect parts of this lighting chain with parts of another manufacture’s lighting chain”		N/A
	- supplied connectors		N/A
	-Max. System length		N/A
	-Max. Number of lamps or max system wattage		N/A
	j) incorporating lamp bridging device		N/A
	k) For class III lighting chains delivered without a supply source		N/A
	i) For mains voltage lighting chains with series connected lamps		P

20.7 (4)	CONSTRUCTION		P
20.7.1(4.2)	Components replaceable without difficulty		P
20.7.1(4.3)	Wireways smooth and free from sharp edges		P
20.7.1(4.4)	Lampholders		N/A
20.7.1(4.4.1)	Integral lampholder		N/A
20.7.1(4.4.2)	Wiring connection		N/A
20.7.1(4.4.3)	Lampholder for end-to-end mounting		N/A
20.7.1(4.4.4)	Positioning		N/A
	- pressure test (N)		N/A
	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)		N/A



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict
	After test the lampholder have not moved from its position and show no permanent deformation		N/A
20.7.1(4.4.5)	Peak pulse voltage		N/A
20.7.1(4.4.6)	Centre contact		N/A
20.7.1(4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
20.7.1(4.4.8)	Lamp connectors		N/A
20.7.1(4.4.9)	Caps and bases correctly used		N/A
20.7.1(4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
20.7.1(4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
20.7.1(4.7)	Terminals and supply connections		P
20.7.1(4.7.1)	Contact to metal parts		N/A
20.7.1(4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
20.7.1(4.7.3)	Terminals for supply conductors		N/A
20.7.1(4.7.3.1)	Welded connections:		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 15.8.2		N/A
	- electrical test according to 15.9		N/A
	- heat test according to 15.9.2.3 and 15.9.2.4		N/A
20.7.1(4.7.4)	Terminals other than supply connection		N/A
20.7.1(4.7.5)	Heat-resistant wiring/sleeves		N/A
20.7.1(4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
20.7.1(4.8)	Switches:		N/A
	- adequate rating		N/A
	- adequate fixing		N/A
	- polarized supply		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	- compliance with 61058-1 for electronic switches		N/A
20.7.1(4.9)	Insulating lining and sleeves		N/A
20.7.1(4.9.1)	Retainment		N/A
	Method of fixing.....:		N/A
20.7.1(4.9.2)	Insulated linings and sleeves		N/A
	Resistant to a temperature > 20 °C to the wire temperature or		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C).....:		N/A
20.7.1(4.10)	Insulation of Class II luminaires		P
20.7.1(4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires		P
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
20.7.1(4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A
20.7.1(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
20.7.1(4.11)	Electrical connections		P
20.7.1(4.11.1)	Does not apply see 20.7.4 below		—
20.7.1(4.11.2)	Does not apply see 20.7.4 below		—
20.7.1(4.11.3)	Does not apply see 20.7.4 below		—
20.7.1(4.11.4)	Material of current-carrying parts		N/A
20.7 (4.11.5)	No contact to wood or mounting surface		N/A
20.7.1(4.11.6)	Does not apply see 20.7.4 below		—
20.7.1(4.12)	Mechanical connections and glands		N/A
20.7.1(4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Torque test: torque (Nm); part.....:		N/A
20.7.1(4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
20.7.1(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
20.7.1(4.12.5)	Screwed glands; force (Nm).....:		N/A
20.7.1(4.13)	Mechanical strength		P
20.7.1(4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm).....:		N/A
	- other parts; energy (Nm).....:	0,7Nm	P
	1) live parts		N/A
	2) linings		N/A
	3) protection		N/A
	4) covers		N/A
20.7.1(4.13.3)	Straight test finger		N/A
20.7.1(4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
20.7.1(4.13.6)	Tumbling barrel		N/A
20.7.1(4.14)	Suspensions and adjusting devices		N/A
20.7.1(4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm).....:		N/A
	D) load track- mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
20.7.1(4.14.2)	Load to flexible cables		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Mass (kg)		N/A
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A
20.7.1(4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
20.7.1(4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
20.7.1(4.14.5)	Guide pulleys		N/A
20.7.1(4.14.6)	Strain on socket-outlets		N/A
20.7.1(4.15)	Flammable materials:		P
	- glow-wire test 650 °C		P
	- spacing ≥ 30 mm		P
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		P
	- thermal protection		N/A
	- electronic circuits exempted		N/A
20.7.1(4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
20.7.1(4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear	(compliance with Section 12)	N/A
20.7.1(4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
20.7.1(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
20.7.1(4.16.3)	Design to satisfy the test of 12.6	(see 12.6)	N/A



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict
20.7.1(4.17)	Drain holes		N/A
	Clearance at least 5 mm		N/A
20.7.1(4.18)	Resistance to corrosion:		N/A
20.7.1(4.18.1)	- rust-resistance		N/A
20.7.1(4.18.2)	- season cracking in copper		N/A
20.7.1(4.18.3)	- corrosion of aluminium		N/A
20.7.1(4.19)	Igniters compatible with ballast		N/A
20.7.1 (4.20)	Rough service vibration		N/A
20.7.1 (4.21)	Protective shield:		N/A
20.7.1(4.21.1)	Shield fitted		N/A
	Shield of glass if tungsten halogen lamps		N/A
20.7.1(4.21.2)	Particles from a shattering lamp not impair safety		N/A
20.7.1(4.21.3)	No direct path		N/A
20.7.1(4.21.4)	Impact test on shield		N/A
	Glow-wire test on lamp compartment		N/A
20.7.1(4.22)	Attachments to lamps		N/A
20.7.1(4.23)	Semi-luminaires comply Class II		N/A
20.7.1(4.24)	UV radiation for tungsten halogen lamps and metal halide lamps (Annex P)		N/A
20.7.1(4.25)	No sharp point or edges		P
20.7.1(4.26)	Short-circuit protection:		N/A
20.7.1(4.26.1)	Uninsulated accessible SELV parts		N/A
20.7.1(4.26.2)	Short-circuit test		N/A
20.7.1(4.26.3)	Test chain according to Figure 29		N/A
20.7.2	Lampholders comply with IEC 60238 or IEC 61184 or this part 2		N/A
20.7.3 (-)	Terminal blocks does not apply (4.6 of section 4 of IEC 60598-1)		N/A
20.7.4 (-)	Terminals and supply connections		N/A
	Apply Clause 4.7 of section 4 of IEC 60598-1		N/A
	Comply with the requirements and modification given in Annex A		N/A
20.7.5 (-)	Gasket weather resistant		N/A
20.7.6 (-)	Mechanical strength requirements		N/A
	Edison screw lampholders and small lampholders 4.13 of section 4 of IEC 60598-1(check by clause 15 of IEC 60238)		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	bayonet lampholder(check by clause 15 of IEC 61184)		N/A
20.7.7 (-)	Lamp birdging devices (test of 20.13.3)		N/A
20.7.8 (-)	Series-connected lamps with bridging-resistors comply with the requirements of protection against electrical shock and fire		N/A
20.7.9 (-)	Lamp rotation		P
	Torque test of push-in lamps: torque 0,025 Nm for 1min		P
20.7.10(-)	Lamp insertion/withdrawal force		N/A
20.7.10 (-)	Pull test 3 N on push-in lamps		P
	Push in force for push-in lamps (N)		P
	Pull out force for push-in lamps (N)		P
	Pull test 10 N±1N for non-replaceable lamps		P
	Tests repeated after ageing 2h in 120°C±5°C		P
	Pull test 3N on push-in lamps		P
	Push in force for push-in lamps (N).....		P
	Pull out force for push-in lamps (N)		P
	Pull test 10 N for non-replaceable lamps		P
	For lampholders fro replaceable lamps, push-in force of 5N ±1N.		P
20.7.11 (-)	Lamp mechanical requirements(For lamps of class II)		P
	Sealed chains:		P
	- pull test: force 60 N		N/A
	- torque test: torque 0,15 Nm		N/A
	- cylinder 250 mm		N/A
20.7.11 (-)	Impact test 0,2 Nm on:		P
	- non-removable lamps		N/A
	- non-standardized lamps		N/A

20.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Working voltage (V).....		—
	Voltage form	Sinusoidal <input type="checkbox"/> Non-sinusoidal <input checked="" type="checkbox"/>	—
	PTI	< 600 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/>	—
	Impulse withstand category (Normal category II) (Category III Annex U)	Category II <input type="checkbox"/> Category III <input checked="" type="checkbox"/>	—



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict
	Rated pulse voltage (kV).....:		—
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm).....:	Cl>1,5mm; Cr>2,5mm	P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm).....:	Cl>3,0mm; Cr>5,0mm	P
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm).....:		N/A
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm)..... :		N/A
	(5) Not used		—
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm).....:	Cl>3,0mm; Cr>5,0mm	P

20.10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 4)	N/A

20.11	EXTERNAL AND INTERNAL WIRING		P
20.11 (5.2)	Supply connection and external wiring		P
20.11 (5.2.1)	Means of connection.....:	Plug	P
20.11 (5.2.2)	See 20.11.2 below		—
20.11 (5.2.3)	Type of attachment, X, Y or Z		P
20.11 (5.2.5)	Type Z not connected to screws		N/A
20.11 (5.2.6)	Cable entries:		N/A
	- suitable for introduction		N/A
	- adequate degree of protection		N/A
20.11 (5.2.7)	Cable entries through rigid material have rounded edges		N/A
20.11 (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
20.11 (5.2.9)	Locking of screwed bushings		N/A
20.11 (5.2.10)	Cord anchorage:		P



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Clause	Requirement + Test	Result - Remark	Verdict
	- covering protected from abrasion		P
	- clear how to be effective		P
	- no mechanical or thermal stress		P
	- no tying of cables into knots etc.		P
	- insulating material or lining		P
20.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
20.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		N/A
20.11 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N)..... : 30N		P
	- torque test: torque (Nm)..... : 0.15Nm		P
	- displacement ≤ 2 mm	0.9mm	P
	- no movement of conductors		P
	- no damage of cable or cord		P
20.11 (5.2.11)	External wiring passing into luminaire		N/A
20.11 (5.2.12)	Looping-in terminals		N/A
20.11 (5.2.13)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
20.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
20.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Appliance couplers of class II type		N/A
20.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
20.11 (5.2.18)	Used plug in accordance with		P
	- IEC 60083		P
	- other standard		N/A
20.11 (5.3)	Internal wiring		N/A
20.11 (5.3.1)	Internal wiring of suitable size and type		N/A
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A)..... :		N/A
	- temperatures..... : (see Annex 2)		N/A
	Green- yellow for earth only		N/A
20.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		N/A
	Cross-sectional area (mm ²)..... :		N/A
	Insulation thickness		N/A
	Extra insulation added where necessary		N/A
20.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Adequate cross-sectional area and insulation thickness		N/A
20.11 (5.3.1.3)	Double or reinforced insulation for class II		N/A
20.11 (5.3.1.4)	Conductors without insulation		N/A
20.11 (5.3.1.5)	SELV current-carrying parts		N/A
20.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
20.11 (5.3.2)	Sharp edges etc.		N/A
	No moving parts of switches etc.		N/A
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		N/A
	No twisting over 360°		N/A
20.11 (5.3.3)	Insulating bushings:		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
20.11 (5.3.4)	Joints and junctions effectively insulated		N/A
20.11 (5.3.5)	Strain on internal wiring		N/A
20.11 (5.3.6)	Wire carriers		N/A
20.11 (5.3.7)	Wire ends not tinned		N/A
	Wire ends tinned: no cold flow		N/A
20.11.2 (-)	Type of cable.....:		N/A
	Nominal cross-sectional area (mm ²)..... :		N/A
	Cables not lighter than IEC 60227 or IEC 60245		N/A
	Conductors without insulation in sealed LEDs in compliance with 5.3.1 of IEC 60598-1		N/A
20.11.3 (-)	Pull test on single-core cable		N/A
20.11.4 (-)	Plugs and cable length		N/A
	Splash-proof plug or permanent connection if for outdoor use		N/A
	Length of the cable between the plug and first lamp or lampholder not less than 1,5 m		N/A

20.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK	P
20.12 (8.2.1)	Live parts not accessible	P
	Basic insulated parts not used on the outer surface without appropriate protection	P
	Basic insulated parts not accessible with standard test finger on portable and adjustable luminaires	N/A
	Basic insulated parts not accessible with Ø 50 mm probe from outside, within arms reach, on wall-mounted luminaires	P
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	N/A
	Basic insulation only accessible under lamp or starter replacement	N/A
	Protection in any position	N/A
	Double-ended tungsten filament lamp	N/A
	Insulation lacquer not reliable	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Double-ended high pressure discharge lamp		N/A
	Relevant warning according to 3.2.18 fitted to the luminaire		N/A
20.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position		N/A
20.12 (8.2.3.a)	Class II luminaire:		P
	- basic insulated metal parts not accessible during starter or lamp replacement		P
	- basic insulation not accessible other than during starter or lamp replacement		P
	- glass protective shields not used as supplementary insulation		N/A
20.12 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed		N/A
20.12 (8.2.3.c)	Class III luminaires with exposed SELV parts:		P
	Ordinary luminaire:		P
	- touch current		P
	- no-load voltage.....		P
	Other than ordinary luminaire:		N/A
	- nominal voltage		N/A
20.12 (8.2.4)	Portable luminaire:		N/A
	- protection independent of supporting surface		N/A
	- terminal block completely covered		N/A
20.12 (8.2.5)	Compliance with the standard test finger or relevant probe		P
20.12 (8.2.6)	Covers reliably secured		P
20.12 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$		N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A
20.12.1 (-)	Protection against electric shock shall be at least equivalent to required for chain with E10 lampholders		N/A
	Divisible plug in compliance with Figure 1		N/A
	Parts of the connector do not separate with a pull force of 10 N		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
	Metal parts of lampholders and cap of bayonet lamps checked with the standard test finger in IEC 60529		N/A
	Not possible to touch contact piece of plug incorporating means for disconnecting with the standard test finger in IEC 60529		N/A
20.12.2 (-)	Divisible plug		N/A
	Live parts are equal to the corresponding dimensions specified in Figure 1.		N/A
	The two parts of the connector shall not separate when subjected to a pull force of 10N		N/A
20.12.3 (-)	Not electrify tinsel or other metallic decorations		P
20.12.4(-)	Contacts of push-in lampholders		P

20.13 (12)	ENDURANCE TEST AND THERMAL TEST		P
20.13 (12.3)	Endurance test:		P
	- mounting- position..... :	Normal Position	—
	- test temperature (°C)..... :	35°C	—
	- total duration (h)..... :	240h	—
	- supply voltage: Un factor; calculated voltage (V) :	1,1*240V~	—
	- lamp used..... :	LED	—
20.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
20.13 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
20.13 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
20.13 (12.6)	Thermal test (fail LED Light Strin control gear condition):		N/A
20.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A) :		—
	- case of abnormal conditions..... :		—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un :		—



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Clause	Requirement + Test	Result - Remark	Verdict
	- measured mounting surface temperature (°C) at 1,1 Un.....:		N/A
	- calculated mounting surface temperature (°C) ..:		N/A
	- track-mounted luminaires		N/A
20.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions.....:		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C)...:		N/A
	- track-mounted luminaires		N/A
20.13 (12.7)	Thermal test (fail LED Light Strin control gear in plastic luminaires):		N/A
20.13 (12.7.1)	Luminaire without temperature sensing control		N/A
20.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex V.....:		—
	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 V:		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un..:		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....:		—
	- calculated temperature of fixing point/exposed part (°C).....:		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C).....:		N/A
	- part tested; temperature (°C).....:		N/A
20.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un..:		—



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Clause	Requirement + Test	Result - Remark	Verdict
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un..... :		—
	- calculated temperature of fixing point/exposed part (°C)..... :		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
20.13 (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
20.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	- manual reset cut-out	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	- auto reset cut-out	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/exposed part (°C):..... :		—
	Ball-pressure test:		N/A
	- part tested; temperature (°C)..... :		N/A
	- part tested; temperature (°C)..... :		N/A
20.13.3 (-)	Lamp bridging not cause temperature which impair safety		N/A

20.14 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE		P
20.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP..... :	IP20	—
	- mounting position during test..... :	Normal operation	—
	- fixing screws tightened; torque (Nm)..... :	--	—
	- tests according to clauses..... :	Clauses 9.2.0	—
	- electric strength test afterwards		P



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Clause	Requirement + Test	Result - Remark	Verdict
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard		N/A
	d) i) For luminaires without drain holes – no water entry		N/A
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		N/A
	f) no contact with live parts (IP 2X)		P
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
	f) no contact with live parts (IP3X and IP4X)		N/A
	g) no trace of water on part of lamp requiring protection from splashing water		N/A
	h) no damage of protective shield or glass envelope		N/A
20.14 (9.3)	Humidity test 48 h	25°C 93%	P

20.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
20.15 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ)		—
	SELV:		N/A
	- between current-carrying parts of different polarity.....		N/A
	- between current-carrying parts and mounting surface.....		N/A
	- between current-carrying parts and metal parts of the luminaire.....		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
	Other than SELV:		P
	- between live parts of different polarity.....	>100 MΩ	P
	- between live parts and mounting surface.....	>100 MΩ	P



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Clause	Requirement + Test	Result - Remark	Verdict

	- between live parts and metal parts..... :		N/A
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 .. :		N/A
20.15 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		N/A
	SELV:		N/A
	- between current-carrying parts of different polarity..... :		N/A
	- between current-carrying parts and mounting surface..... :		N/A
	- between current-carrying parts and metal parts of the luminaire..... :		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
	Other than SELV:		P
	- between live parts of different polarity..... :	1480V	P
	- between live parts and mounting surface..... :	2960V	P
	- between live parts and metal parts..... :		N/A
	- between live parts of different polarity through action of a switch..... :		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts..... :		N/A
	- Insulation bushings as described in Section 5 .. :		N/A
20.15 (10.3)	Touch current (mA)..... :		N/A

20.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
20.16 (13.2.1)	Ball-pressure test:		P



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Clause	Requirement + Test	Result - Remark	Verdict
	- part tested; temperature (°C)..... :	DC connector 125°C, 1,2mm	P
	- part tested; temperature (°C)..... :		N/A
20.16(13.3.1)	Needle flame test (10 s):		P
	- part tested..... :	DC connector	P
	- part tested..... :		N/A
20.16(13.3.2)	Glow-wire test (650°C):		P
	- part tested..... :	DC connector	P
	- part tested..... :		N/A
	- part tested..... :		N/A
20.16(13.4.1)	Tracking test:		N/A
	- part tested..... :		N/A
	- part tested..... :		N/A
20.16 (-)	Flexible pipes of sealed chain in compliance with clause 8 of IEC/EN 60811-3-1		N/A



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict

ANNEX 1: components					
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
DC connector	SABIC INNOVATIVE PLASTICS US L L C	945 (GG)	V-0, 120 ° C, Min thickness: 1.5mm	UL 94 UL 746C	UL E121562
LED	/	/	Input:220-240V, 50/60Hz	CE	EN 62560
Supply cords	Dong Guan Recheer Electric Wire & Cable Co., Ltd.	H05VV-F	2X 0,75mm ² 300/500V	IEC 60245	VDE 40015173
LED drive	Wenzhou Yijie Electric Co., Ltd	--	Input:220- 240V~, 50/60Hz	IEC 60598-1 IEC 60598-2-20	IEC

The codes above have the following meaning:

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



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 2: temperature measurements, thermal tests of Section 12		P
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Type reference.....	: 04133	—
Lamp used.....	: LED Lamp	—
Lamp control gear used.....	: --	—
Mounting position of luminaire.....	: Normal position	—
Supply wattage (W).....	: 9.2W	—
Supply current (A).....	:	—
Calculated power factor.....	:	—
Table: measured temperatures corrected for ta = 25 °C:		P
- abnormal operating mode.....	:	—
- test 1: rated voltage.....	:	—
- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	: 1.06x240V~	—
- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage.....	:	—
- test 4: 1,1 times rated voltage or 1,05 times rated wattage.....	:	—
Through wiring or looping-in wiring loaded by a current of A during the test	:	—

temperature (°C) of part	Clause 12.4 – normal				Clause 12.5 – abnormal	
	test 1	test 2	test 3	limit	test 4	limit
Plug	--	43,6	--	Ref.	--	--
Power Cord	--	45,7	--	90	--	--
DC connector	--	38,6	--	Ref.	--	--
Mounting surface	--	35,6	--	75	--	--
Lighting surface (10cm)	--	36,8	--	90	--	--
Ambient	--	25,0	--	25	--	--



EN 60598-2-20			
Clause	Requirement + Test	Result - Remark	Verdict

	ANNEX 4: screwless terminals (part of the luminaire)		N/A
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(15)	SCREWLESS TERMINALS		N/A
(15.2)	Type of terminal..... :		—
	Rated current (A)..... :		—
(15.3.1)	Material		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
	Type of conductor		N/A
(15.5.1)	Terminals internal wiring		N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples).....:		N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples).....:		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.2)	Permanent connections: pull-off test (20 N)		N/A
(15.6)	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..... :		—
	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
(15.7)	Terminals external wiring		N/A
	Terminal size and rating		N/A



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Clause	Requirement + Test									Result - Remark	Verdict
(15.8.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)										N/A
	Pull test pin or tab terminals (4 samples); pull (N)										N/A
(15.9)	Contact resistance test										N/A
	Voltage drop (mV) after 1 h										N/A
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop of two inseparable joints										N/A
	Voltage drop after 10th alt. 25th cycle										N/A
	Max. allowed voltage drop (mV).....										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Voltage drop after 50th alt. 100th cycle										N/A
	Max. allowed voltage drop (mV).....										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
	Continued ageing: voltage drop after 10th alt. 25th cycle										N/A
	Max. allowed voltage drop (mV).....										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											
g	Continued ageing: voltage drop after 50th alt. 100th cycle										N/A
	Max. allowed voltage drop (mV).....										—
terminal	1	2	3	4	5	6	7	8	9	10	
voltage drop (mV)											



Attachment 1: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

ATTACHMENT TO TEST REPORT IEC 60598-2-20 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminaires Part 2: Particular requirements: Section Twenty – LEDs	
Differences according:	Fpr EN IEC 60598-2-20:2021 used in conjunction with EN IEC 60598-1:2021
Annex Form No:	EU_GD_IEC60598_2_20B
Annex Form Originator:	Intertek Semko AB
Master Annex Form:	2016-04
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Clause	Requirement + Test	Result - Remark	Verdict
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	CENELEC COMMON MODIFICATIONS (EN)		P
20.5 (3)	MARKING		P
20.5 (3.3.101)	Adequate warning on the package		P
20.6 (4)	CONSTRUCTION		P
20.6 (4.11.6)	Electro-mechanical contact systems		N/A
20.6.1	E14 and E27 comply with EN 60238		N/A
	E5, E10 and similar small push-in lampholders comply with appropriate requirements of EN 60238 modified by Annex ZB		N/A
	Larger than E10 with non-metallic screw threads comply with 12.1 of EN 60238		N/A
	Insulation piercing contacts in E27 and B22 parallel connected lampholders comply with this section and E27 also with 12.1 of EN 60238		N/A
	Bayonet lampholders comply with EN 61184		N/A
	Non-standardized lamp comply with this part 2		N/A
20.6.6	E14 and E27 comply with 4.13 of EN 60598-1 and tests by clause 15 of EN 60238		N/A
	E5, E10 and similar push-in lampholders comply with EN 60238 clause 15 modified by Annex ZB		N/A
20.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		N/A
20.7	E14 and E27 comply with clause 17 of EN 60238		N/A
	E5 and similar small push-in lampholders comply with clause 17 of EN 60238 modified by Annex ZB		N/A
20.10 (5)	EXTERNAL AND INTERNAL WIRING		P



20.10 (5.2.1)	Connecting leads	P
	- without a means for connection to the supply	P
	- terminal block specified	N/A
	- relevant information provided	N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	N/A
20.10.1	Cables equal to HD21 S2 or HD22 S2 and not lighter than described in 20.10.1	N/A
20.10.1	Cross-sectional area	N/A
	- $\geq 0,5 \text{ mm}^2$ for E5, E10 and similar small push-in lampholders	N/A
	- $\geq 0,75 \text{ mm}^2$ for E14, E27, B15 and B22 in serie	N/A
	- $\geq 1,5 \text{ mm}^2$ for E14, E27, B15 and B22 in parallel	N/A
	Can be $< 0,4 \text{ mm}^2$ for internal and external cables of Class III LEDs $\leq 50\text{W}$ and internal conductors of sealed chains if adequate current-carrying capacity and mechanical properties	N/A
20.10.1	In sealed chain of class III, conductors without insulation comply with 5.3.1 of EN 60598-1	P
20.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING	P
	Tests for E14 and E27 according clause 20 of EN 60238	N/A
	Tests for E5, E10 and similar push-in lampholders according clause 20 of EN 60238 as modified by Annex ZB	N/A

Please note that the clause numbers above is according to the Common Modifications in EN 60598-2-20:2010 and not corresponding to the clause numbers in IEC 60598-2-20:2010.

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	P
(3.3)	DK: power supply cord with label	N/A
	IT: warning label on Class 0 luminaire	N/A
(4.5.1)	DK: socket-outlets	N/A
(5.2.1)	CY, DK, FI, SE, GB: type of plug	N/A

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	P
(4 & 5)	FR: Shuttered socket-outlets 10/16A	N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation	N/A
(13.3.2)	FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public or 960°C for luminaires in emergency exits	N/A



Attachment 2:Photo documentation:

Photo 1



Photo 2



Photo 3



Photo 4



===== END OF REPORT =====

