

Test Report issued under the responsibility of:



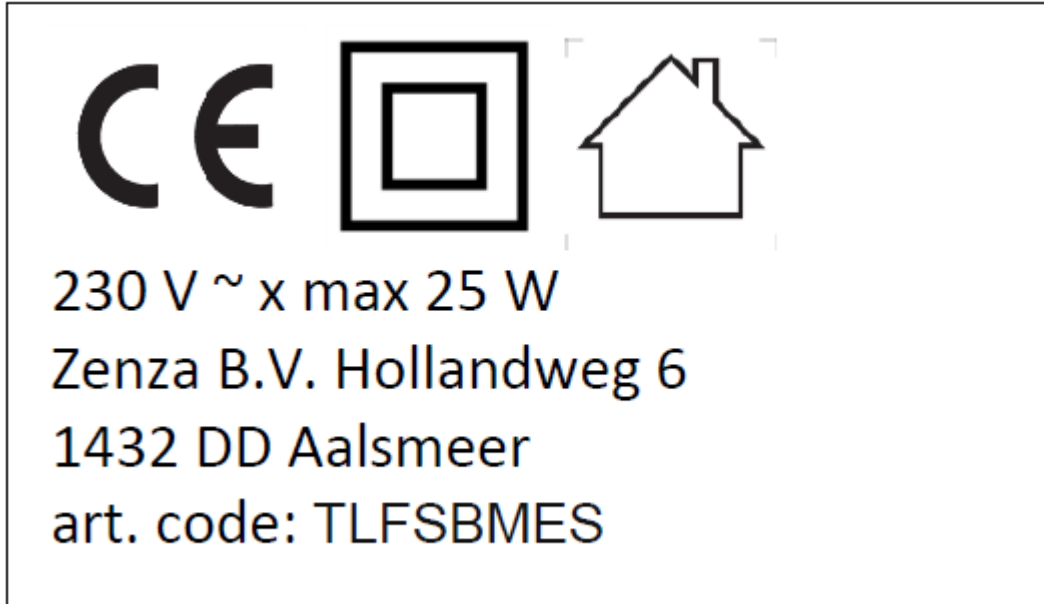
TEST REPORT IEC 60598-2-4 Luminaires, Part 2: Particular requirements Section 4: Portable general purpose luminaires	
Report Number	: 2248100.51
Date of issue	: 2020-12-18
Total number of pages	: 53
Name of Testing Laboratory preparing the Report	DEKRA Certification B.V. Meander 1051, 6825 MD Arnhem, The Netherlands
Applicant's name	: Zenza B.V.
Address	: Hornweg 77e, 1432 GD Aalsmeer, The Nederland
Test specification:	
Standard	: IEC 60598-2-4:2018 used in conjunction with IEC 60598-1:2014, AMD1:2017
Test procedure	: CE examination
Non-standard test method	: N/A
Test Report Form No.	: IEC60598_2_4G
Test Report Form(s) Originator	: UL(US)
Master TRF	: 2018-04-05
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Test item description..... :	Portable luminaires	
Trade Mark..... :	ZENZA	
Manufacturer..... :	Zenza B.V., Hollandweg 6, 1432 DD, Aalsmeer	
Model/Type reference..... :	(See general product information)	
Ratings..... :	230 Vac, class II, IP20, max. 25 W (E14) or max. 60 W (E27) per lampholder (dependent on luminaire).	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input type="checkbox"/>	CB Testing Laboratory:	DEKRA Certification B.V.
Testing location/ address.....:		Meander 1051, Arnhem, Netherlands
Tested by (name, function, signature).....:		R.J. Hensbroek 
Approved by (name, function, signature)....:		A.P. van der Veen 
<input type="checkbox"/>	Testing procedure: CTF Stage 1:	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 2:	
Testing location/ address.....:		
Tested by (name + signature)		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
<input type="checkbox"/>	Testing procedure: CTF Stage 3:	
<input type="checkbox"/>	Testing procedure: CTF Stage 4:	
Testing location/ address.....:		
Tested by (name, function, signature).....:		
Witnessed by (name, function, signature)..:		
Approved by (name, function, signature)....:		
Supervised by (name, function, signature) :		

<p>List of Attachments (including a total number of pages in each attachment):</p> <p>Attachment 1: Pictures (of tested models) (7 pages) Attachment 2: Overview Luminaires (covered by the report) (7 pages) Attachment 3: Instruction manual (1 page)</p>	
<p>Summary of testing: See also TRF 2232516.50</p>	
<p>Tests performed (name of test and test clause):</p> <p>Type Test according IEC 60598-2-4:2017; in conjunction with IEC 60598-1:2014 + A1:2017</p> <p>An evaluation was conducted on the products to check the compliance with the CE LVD requirements (in specific to the safety standards for lighting products).</p>	<p>Testing location:</p> <p>DEKRA Certification B.V. Meander 1051 6825 MD Arnhem Netherlands</p>
<p>Summary of compliance with National Differences (List of countries addressed):</p> <p>The evaluation acc. the IEC 60598-2-4:2017 in conjunction with IEC 60598-1:2014 + A1:2017 is representative for the EN 60598-2-4:2018 in conjunction with EN 60598-1:2015 + A1:2018.</p>	

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.



Test item particulars	
Classification of installation and use..... : Class II, table/floor standing.	
Supply Connection : By cord set (plug, cord switch and length of cord)	
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..... : 20-07-2020	
Date (s) of performance of tests : 08-2020 – 10-2020	
General remarks:	
"(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 <input type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.	
Clause numbers between brackets refer to clauses in IEC 60598-1	
Manufacturer's Declaration per sub-clause 4.2.5 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 type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies).....	Zenza International Zip Code 11828 153 industrial region, B & G small industries Obour City, Cairo, Egypt

General product information and other remarks:

Metal encased, table/floor standing luminaires in different sizes. The rated power is depended on the luminaire and the used light source. There is a label on the lampholder which indicates the maximum wattage of the (single) lampholder.

Test were below products.



Model: Elegance (small)



Model: Princess (Large)


All type listed below are considered to have the same construction as the tested luminaires.

Code (on label)	Type indication	Color
TLEGG	Table Lamp Egg on legs	Gold
TLTAHMIFA	Table Lamp Tahrir Mini Fan Silver	Silver
TLTAHMISK	Table Lamp Tahrir Mini Filisky Silver	Silver
TAHSKYSSTL	Table Lamp Tahrir Filisky Small Silver	Silver
TAHSKYSLTL	Table Lamp Tahrir Filisky Large Silver	Silver
TAHGROSSTL	Table Lamp Tahrir Filigros Small Silver	Silver
TAHGROSLTL	Table Lamp Tahrir Filigros Large Silver	Silver
TLFNPRS	TL Princess Fan Small Silver	Silver
TLFNPRL	TL Princess Fan Large Silver	Silver
BALSCIRTL	Table Lamp Ball Circles Small Silver	Nickel
BALMCIRTL	Table Lamp Ball Circles Medium Silver	Nickel
BALXLCIRTL	Table Lamp Ball Circles XL Silver	Nickel

TLFSBSMS	Table Lamp Ball Filisky Small Silver	Silver
TLFSBMES	Table Lamp Ball Filisky Medium Silver	Silver
TLFSBXLS	Table Lamp Ball Filisky XL Silver	Silver
BALSLFGOTL	Table Lamp Ball leaf Small Gold	Gold
BALMSKYGOTL	Tablelamp ball filisky Medium Gold	Gold
BALSBLCTL	Tablelamp Ball Blossom Small Silver	Silver
BALMBLCTL	Tablelamp Ball Blossom Medium Silver	Silver
TLFSBSMGO	Table Lamp Ball Filisky Small Gold	Gold
TLBLEAMEGO	Table Lamp Ball Leaf Medium Gold	Gold
TLFSBXLGO	Table Lamp Ball Filisky XL Gold	Gold
TLFS002SL	Table Lamp Boho Filisky Small Silver	Silver
TLFS001SL	Table Lamp Boho Filisky Large Silver	Silver
TLFS003SL	Table Lamp Boho Filisky XL Silver	Silver
AS0413SSL	Table Lamp Boho Filigrain Small Silver	Silver
AS049SSL	Table Lamp Boho Filigrain Large Silver	Silver
TLFIGSU	Table Lamp Boho Filigrain XL Silver	Silver
FIMI001	Table Lamp Ibiza Filisky Mini Silver	Silver
FAMITL	Table Lamp Ibiza Fan Mini Silver	Silver
TLTWISGROSMESI	Table Lamp Twist Filigros Small Silver	silver
TLTWISGROMESI	Table Lamp Twist Filigros Medium Silver	silver
TLTWISGROSMGO	Table Lamp Twist Filigros Small Gold	Gold
TLTWISGROMESEGO	Table Lamp Twist Filigros Medium Gold	Gold
TLTWISFGRSMESI	Table Lamp Twist filigrain Small Silver	silver
TLTWISFGRMESI	Table Lamp Twist filigrain Medium Silver	silver
TLLAMWISSMSI	Table Lamp Lampoon Wisdom Small Silver	silver
TLLAMWISMESI	Table Lamp Lampoon Wisdom Medium Silver	silver
TLLAMSKYSMSI	Table Lamp Lampoon Filisky Small Silver	silver
TLLAMSKYMESI	Table Lamp Lampoon Filisky Medium Silver	silver
TLBABSKYSMSI	Table Lamp Babylon Filisky Small Silver	silver
TLBABMOOSMSI	Table Lamp Babylon Moorish Small Silver	silver
TLBABWISSMSI	Table Lamp Babylon Wisdom Small Silver	silver
TLELGMIFA	Table Lamp Elegance Mini Fan Silver	Silver

TLELGMISK	Table Lamp Elegance Mini Filisky Silver	Silver
ELFITL	Table Lamp Elegance Filisky Silver	Silver
TALSSMTL	Table Lamp Tally Filisky Small Silver	Silver
TALSMETL	Table Lamp Tally Filisky Medium Silver	Silver
TALFSMTL	Table Lamp Tally Fan Small Silver	Silver
TALFMETL	Table Lamp Tally Fan Medium Silver	Silver

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.4 (0)	GENERAL TEST REQUIREMENTS		P
4.4 (0.3)	More sections applicable	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Section/s:	—
4.4 (0.7)	Information for luminaire design in light sources standards		—
4.4 (0.7.2)	Light source safety standard	N/A	—
	Luminaire design in the light source safety standard		N/A
4.5 (2)	CLASSIFICATION OF LUMINAIRES		P
4.5 (2.2)	Type of protection	Class II	P
4.5 (2.3)	Degree of protection	IP 20	P
4.5 (2.5)	Luminaire for normal use	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
	Luminaire for rough service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
4.5.1 (-)	Ordinary luminaire	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
4.5.2 (-)	Portable luminaire for outdoor use	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	—
	Classified IPX4 or higher		N/A
4.5.3 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	—
4.6 (3)	MARKING		P
4.6 (3.2)	Mandatory markings		P
	Position of the marking		P
	Format of symbols/text		P
4.6 (3.3)	Additional information		P
	Language of instructions		P
4.6 (3.3.1)	Combination luminaires		N/A
4.6 (3.3.2)	Nominal frequency in Hz		N/A
4.6 (3.3.3)	Operating temperature	ta = 25 °C (not marked)	P
4.6 (3.3.5)	Wiring diagram		N/A
4.6 (3.3.6)	Special conditions		N/A
4.6 (3.3.7)	Metal halide lamp luminaire – warning		N/A
4.6 (3.3.8)	Limitation for semi-luminaires		N/A
4.6 (3.3.9)	Power factor and supply current		N/A
4.6 (3.3.10)	Suitability for use indoors		P
4.6 (3.3.11)	Luminaires with remote control		N/A
4.6 (3.3.12)	Clip-mounted luminaire – warning		N/A
4.6 (3.3.13)	Specifications of protective shields		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.6 (3.3.14)	Symbol for nature of supply	230 V~	P
4.6 (3.3.15)	Rated current of socket outlet		N/A
4.6 (3.3.16)	Rough service luminaire		N/A
4.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	P
4.6 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
4.6 (3.3.19)	Protective conductor current in instructions, if applicable		N/A
4.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
4.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		N/A
	Cautionary symbol		N/A
4.6 (3.3.22)	Controllable luminaires, classification of insulation provided		N/A
4.6 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component		N/A
4.6 (3.3.24)	If not supplied with terminal block, information on the packaging		N/A
4.6 (3.4)	Test with water		P
	Test with hexane		P
	Legible after test		P
	Label attached		P
4.6.1 (-)	Luminaire not suitable for outdoor application		P
	Required symbol		P
	Information in the instructions		P
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire		N/A
	Maximum power rating marked		N/A
	Position of the marking		N/A
4.7 (4)	CONSTRUCTION		P
4.7 (4.2)	Components replaceable without difficulty		P
4.7 (4.3)	Wireways smooth and free from sharp edges		P

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.4)	Lampholders		P
4.7 (4.4.1)	Integral lampholder		N/A
4.7 (4.4.2)	Wiring connection		P
4.7 (4.4.3)	Lampholder for end-to-end mounting		N/A
4.7 (4.4.4)	Positioning		N/A
	- pressure test (N)		—
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)		—
	After test the lampholder have 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		N/A
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
4.7 (4.4.8)	Lamp connectors		N/A
4.7 (4.4.9)	Caps and bases correctly used		N/A
4.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way		N/A
4.7 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II		N/A
	Starter holder class II construction		N/A
4.7 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
4.7 (4.7)	Terminals and supply connections		P
4.7 (4.7.1)	Contact to metal parts		N/A
4.7 (4.7.2)	Test 8 mm live conductor		N/A
	Test 8 mm earth conductor		N/A
4.7 (4.7.3)	Terminals for supply conductors		N/A
4.7 (4.7.3.1)	Welded method and material		N/A
	- stranded or solid conductor		N/A
	- spot welding		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- welding between wires		N/A
	- Type Z attachment		N/A
	- mechanical test according to 15.6.2		N/A
	- electrical test according to 15.6.3		N/A
	- heat test according to 15.6.3.2.3 and 15.6.3.2.4		N/A
4.7 (4.7.4)	Terminals other than supply connection		N/A
4.7 (4.7.5)	Heat-resistant wiring/sleeves		N/A
4.7 (4.7.6)	Multi-pole plug		N/A
	- test at 30 N		N/A
4.7 (4.8)	Switches		P
	- adequate rating		P
	- adequate fixing	In cord switch	P
	- polarized supply		P
	- compliance with IEC 61058-1 for electronic switches		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
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C)		N/A
4.7 (4.10)	Double or reinforced insulation		P
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation		P
	Safe installation fixed luminaires		P
	Capacitors and switches		N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
4.7 (4.10.2)	Assembly gaps:		N/A
	- not coincidental		N/A
	- no straight access with test probe		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.10.3)	Retainment of insulation:		P
	- fixed		P
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lampholder		N/A
4.7 (4.10.4)	Protective impedance device		N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor		N/A
	Y1 or Y2 capacitors comply with IEC 60384-14		N/A
	Resistors comply with test (a) in 14.1 of IEC 60065		N/A
4.7 (4.11)	Electrical connections and current-carrying parts		P
4.7 (4.11.1)	Contact pressure		P
4.7 (4.11.2)	Screws:		N/A
	- self-tapping screws		N/A
	- thread-cutting screws		N/A
4.7 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
4.7 (4.11.4)	Material of current-carrying parts		P
4.7 (4.11.5)	No contact to wood or mounting surface		P
4.7 (4.11.6)	Electro-mechanical contact systems		N/A
4.7 (4.12)	Screws and connections (mechanical) and glands		N/A
4.7 (4.12.1)	Screws not made of soft metal		N/A
	Screws of insulating material		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
	Torque test: torque (Nm); part.....:		N/A
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
4.7 (4.12.4)	Locked connections:		N/A
	- fixed arms; torque (Nm).....:		N/A
	- lampholder; torque (Nm).....:	1,4 Nm / E14 2,0 Nm / E27	N/A
	- push-button switches; torque 0,8 Nm.....:		N/A
4.7 (4.12.5)	Screwed glands; force (Nm).....:		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.13)	Mechanical strength		P
4.7 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm)		N/A
	- other parts; energy (Nm).....	0,35 Nm	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
4.7 (4.13.3)	Straight test finger		P
4.7 (4.13.4)	Rough service luminaires		N/A
	- IP54 or higher		N/A
	a) fixed		N/A
	b) hand-held		N/A
	c) delivered with a stand		N/A
	d) for temporary installations and suitable for mounting on a stand		N/A
4.7 (4.13.6)	Tumbling barrel		N/A
4.7 (4.14)	Suspensions, fixings and means of adjusting		P
4.7 (4.14.1)	Mechanical load:		N/A
	A) four times the weight		N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm)		N/A
	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		—
	Metal rod. diameter (mm)		N/A
	Fixed luminaire or independent control gear without fixing devices		N/A
4.7 (4.14.2)	Load to flexible cables		N/A
	Mass (kg)		—
	Stress in conductors (N/mm ²)		N/A
	Mass (kg) of semi-luminaire		N/A
	Bending moment (Nm) of semi-luminaire		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles.....:		N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A
4.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors		N/A
4.7 (4.14.5)	Guide pulleys		N/A
4.7 (4.14.6)	Strain on socket-outlets		N/A
4.7 (4.15)	Flammable materials		N/A
	- glow-wire test 650°C.....:	See Test Table 4.15 (13.3.2)	N/A
	- spacing ≥ 30 mm		N/A
	- screen withstanding test of 13.3.1		N/A
	- screen dimensions		N/A
	- no fiercely burning material		N/A
	- thermal protection		N/A
	- electronic circuits exempted		N/A
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp control gear		N/A
	a) construction		N/A
	b) temperature sensing control		N/A
	c) surface temperature		N/A
4.7 (4.16)	Luminaires for mounting on normally flammable surfaces		P
	No lamp control gear	(compliance with Section 12)	N/A
4.7 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
4.7 (4.16.2)	Thermal protection:		N/A
	- 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

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

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.25)	Mechanical hazard		P
	No sharp point or edges		P
4.7 (4.26)	Short-circuit protection		N/A
4.7 (4.26.1)	Adequate means of uninsulated accessible SELV parts		N/A
4.7 (4.26.2)	Short-circuit test with test chain according 4.26.3		N/A
	Test chain not melt through		N/A
	Test sample not exceed values of Table 12.1 and 12.2		N/A
4.7 (4.27)	Terminal blocks with integrated screwless earthing contacts		N/A
	Test according Annex V		N/A
	Pull test of terminal fixing (20 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Pull test of mechanical connection (50 N)		N/A
	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance < 0,05 Ω		N/A
4.7 (4.28)	Fixing of thermal sensing control		N/A
	Not plug-in or easily replaceable type		N/A
	Reliably kept in position		N/A
	No adhesive fixing if UV radiations from a lamp can degrade the fixing		N/A
	Not outside the luminaire enclosure		N/A
	Test of adhesive fixing:		N/A
	Max. temperature on adhesive material ($^{\circ}\text{C}$)		—
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
4.7 (4.29)	Luminaires with non-replaceable light source		N/A
	Not possible to replace light source		N/A
	Live part not accessible after parts have been opened by hand or tools		N/A
4.7 (4.30)	Luminaires with non-user replaceable light source		N/A
	If protective cover provide protection against electric shock and marked with "caution, electric shock risk" symbol:		N/A
	Minimum two fixing means		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.31)	Insulation between circuits		N/A
	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3		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 circuits		N/A
	Used SELV source		N/A
	Voltage \leq ELV		N/A
	Insulating of SELV circuits from LV supply		N/A
	Insulating of SELV circuits from other non SELV circuits		N/A
	Insulating of SELV circuits from FELV		N/A
	Insulating of SELV circuits from other SELV circuits		N/A
	SELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Plugs and socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.2)	FELV circuits		N/A
	Used FELV source		N/A
	Voltage \leq ELV		N/A
	Insulating of FELV circuits from LV supply		N/A
	FELV circuits insulated from accessible parts according Table X.1		N/A
	Plugs not able to enter socket-outlets of other voltage systems		N/A
	Socket outlets does not admit plugs of other voltage systems		N/A
	Socket-outlets does not have protective conductor contact		N/A
4.7 (4.31.3)	Other circuits		P
	Other circuits insulated from accessible parts according Table X.1		P

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Class II construction with equipotential bonding for protection against indirect contacts with live parts:		N/A
	- conductive parts are connected together		N/A
	- test according 7.2.3		N/A
	- conductive part not cause an electric shock in case of an insulation fault		N/A
	- equipotential bonding in master/slave applications		N/A
	- master luminaire provided with terminal for accessible conductive parts of slave luminaires		N/A
	- slave luminaire constructed as class I		N/A
4.7 (4.32)	Overvoltage protective devices		N/A
	Comply with IEC 61643-11		N/A
	External to controlgear and connected to earth:		N/A
	- only in fixed luminaires		N/A
	- only connected to protective earth		N/A
4.7.1 (-)	Insulation not damaged when moving, adjusting or placing on support		P
4.7.2 (-)	Wiring fixed, to avoid rubbing		P
	Carrier or clips of insulation material or with insulating lining		N/A
4.7.3 (-)	Luminaire not overturn at angle 6°		P
	Outdoor use luminaire not overturn at an angle 15°		P
4.7.4 (-)	Candlestick luminaires with E5 or E10 lampholders provided with a switch		N/A
	Switch part of the luminaire or within 300 mm of the luminaire if with cord		N/A
4.7.5 (-)	Voltage not exceeding 25 V for E5 lampholders		N/A
	E10 lampholder voltage:		N/A
	- not exceeding 60 V for series connection) or		N/A
	- not exceeding 250 V for parallel connections		N/A
	Maximum rated wattage not exceed 100 W		N/A
4.7.6 (-)	Portable luminaires for outdoor use tails not provided		N/A
4.7.7 (-)	Portable luminaires for outdoor use, cable entries		N/A
4.7.8 (-)	Portable luminaires for outdoor use, socket-outlet degree of protection at least same as the luminaire but not less than IPX4.		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Degree of protection maintained with or without a plug inserted into the socket-outlet.		N/A
	Class II luminaires, mains socket-outlets comply with the standard and only allow connection to Class II luminaires		N/A
	Class I luminaires, mains socket-outlets comply with the standard and only allow connection to Class I or Class II luminaires		N/A
4.7.9 (-)	Portable luminaires for outdoor use, lampholders and plugs are of material resistant to tracking		N/A
	Compliance to clause 13.4		N/A
4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1)	Category II <input checked="" type="checkbox"/> Category III <input type="checkbox"/>	—
4.8 (11.2.1)	Category III according Annex U		N/A
	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1		N/A
4.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 4.7 (11.2) I	P
	Creepage distances for frequency over 30 kHz:		N/A
	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w)	See Test Table 4.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.7 (11.2) II	N/A
4.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 4.7 (11.2) I	P
	Clearances distances for frequency over 30 kHz:		N/A
	- Controlgear marked with U_p	See Test Table 4.7 (11.2) II	N/A
	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 4.7 (11.2) II	N/A
4.9 (7)	PROVISION FOR EARTHING		N/A
4.9 (7.2.1 + 7.2.3)	Accessible metal parts		N/A
	Metal parts in contact with supporting surface		N/A
	Resistance $< 0,5 \Omega$		N/A
	Self-tapping screws used		N/A
	Thread-forming screws		N/A
	Thread-forming screw used in a groove		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Protective earthing of the luminaire not via built-in control gear		N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.		N/A
4.9 (7.2.4)	Locking of clamping means		N/A
	Compliance with 4.7.3		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
4.9 (7.2.5)	Earth terminal integral part of connector socket		N/A
4.9 (7.2.6)	Earth terminal adjacent to mains terminals		N/A
4.9 (7.2.7)	Electrolytic corrosion of the earth terminal		N/A
4.9 (7.2.8)	Material of earth terminal		N/A
	Contact surface bare metal		N/A
4.9 (7.2.10)	Class II luminaire for looping-in		N/A
	Double or reinforced insulation to functional earth		N/A
4.9 (7.2.11)	Earthing core coloured green-yellow		N/A
	Length of earth conductor		N/A
4.10 (14)	SCREW TERMINALS		P
	Separately approved; component list	(see Annex 1) Note: screw terminals are part of the lampholder	P
	Part of the luminaire	(see Annex 3)	N/A
4.10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
	Separately approved; component list	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 4)	N/A
4.11 (5)	EXTERNAL AND INTERNAL WIRING		P
4.11 (5.2)	Supply connection and external wiring		P
4.11 (5.2.1)	Means of connection.....	2 pin plug (class 2)	P
	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment		N/A
4.11 (5.2.2)	Type of cable.....	FRDR (Arditi SpA, 300/500 V)	P
	Nominal cross-sectional area (mm ²).....	2 x 0,75 mm ²	P
	Cables equal to IEC 60227 or IEC 60245		P
4.11 (5.2.3)	Type of attachment, X, Y or Z	Type – Y attachment	P
4.11 (5.2.5)	Type Z not connected to screws		P

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
4.11 (5.2.7)	Cable entries through rigid material have rounded edges		P
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:		P
	- 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
4.11 (5.2.10.1)	Cord anchorage for type X attachment:		N/A
	a) at least one part fixed		N/A
	b) types of cable		N/A
	c) no damaging of the cable		N/A
	d) whole cable can be mounted		N/A
	e) no touching of clamping screws		N/A
	f) metal screw not directly on cable		N/A
	g) replacement without special tool		N/A
	Glands not used as anchorage		N/A
	Labyrinth type anchorages		N/A
4.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment		P
4.11 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N)	25 x 60N	P
	- torque test: torque (Nm).....	0,15 Nm	P

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	- displacement ≤ 2 mm		P
	- no movement of conductors		P
	- no damage of cable or cord		P
	- function independent of electrical connection		P
4.11 (5.2.11)	External wiring passing into luminaire		P
4.11 (5.2.12)	Looping-in terminals		N/A
4.11 (5.2.13)	Wire ends not tinned	Provided with crimp-on ferrules	P
	Wire ends tinned: no cold flow		N/A
4.11 (5.2.14)	Mains plug same protection		N/A
	Class III luminaire plug		N/A
	No unsafe compatibility		N/A
4.11 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector according relevant IEC standard		N/A
4.11 (5.2.17)	No standardized interconnecting cables properly assembled		N/A
4.11 (5.2.18)	Used plug in accordance with		N/A
	- IEC 60083		N/A
	- other standard		N/A
4.11 (5.3)	Internal wiring		P
4.11 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		N/A
	- not delivered/ mounting instruction		N/A
	- factory assembled		N/A
	- socket outlet loaded (A).....:		N/A
	- temperatures.....:	(see Annex 2)	N/A
	Green-yellow for earth only		N/A
4.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²).....:	0,75 mm ²	P
	Insulation thickness		P
	Extra insulation added where necessary		P
4.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	Cross-sectional area (mm ²)		N/A
4.11 (5.3.1.3)	Double or reinforced insulation for class II		P
4.11 (5.3.1.4)	Conductors without insulation		N/A
4.11 (5.3.1.5)	SELV current-carrying parts		N/A
4.11 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
4.11 (5.3.2)	Sharp edges etc.		P
	No moving parts of switches etc.		P
	Joints, raising/lowering devices		N/A
	Telescopic tubes etc.		P
	No twisting over 360°		P
4.11 (5.3.3)	Insulating bushings:		P
	- suitable fixed		P
	- material in bushings		P
	- material not likely to deteriorate		P
	- cables with protective sheath		N/A
4.11 (5.3.4)	Joints and junctions effectively insulated		N/A
4.11 (5.3.5)	Strain on internal wiring		N/A
4.11 (5.3.6)	Wire carriers		N/A
4.11 (5.3.7)	Wire ends not tinned	Provided with crimp-on ferrules	P
	Wire ends tinned: no cold flow		N/A
4.11 (5.4)	Test to determine suitability of conductors having a reduced cross-sectional area		N/A
	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
	No damage to luminaire wiring after test		N/A
4.11.1 (-)	Indoor use luminaire The requirement of one part of cord anchorage to be fixed to the luminaire not applied for table lamps of glass or ceramic		—
4.11.2 (-)	Class I and class II indoor use Luminaire with a mass less than 1 kg the current ≤ 2,5 A and cable ≤ 2 m and conductor ≥ 0,5 mm ²		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.11.3 (-)	Terminals, a cord anchorage and an inlet opening for the proper connection of the flexible cable or cord if for outdoor use and delivered without a flexible cable or cord and a plug.		N/A
4.11.4 (-)	Portable luminaires for outdoor use Insulation class I and class II, non-detachable flexible cables or cords at least type 245 IEC 57.		N/A
4.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
4.12 (8.2.1)	Live parts not accessible		P
	Basic insulated parts not used on the outer surface without appropriate protection		P
	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires		P
	Basic insulated parts not accessible with \varnothing 50 mm probe from outside, other types of luminaires		P
	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements		N/A
	Basic insulation only accessible under lamp or starter replacement		N/A
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	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		P
4.12 (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		N/A
	- glass protective shields not used as supplementary insulation		N/A
4.12 (8.2.3.b)	BC lampholder of metal in class I luminaires is earthed		N/A

IEC 60598-2-4			
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 (V)		N/A
	- no-load voltage (V)		N/A
	- touch current if applicable (mA)		N/A
	One conductive part insulated if required		N/A
	Other than ordinary luminaire:		N/A
	- nominal voltage (V)		N/A
	Class III luminaire only for connection to SELV		N/A
	Class III luminaire not provided with means for protective earthing		N/A
4.12 (8.2.4)	Portable luminaire have protection independent of supporting surface		P
4.12 (8.2.5)	Compliance with the standard test finger or relevant probe		P
4.12 (8.2.6)	Covers reliably secured		P
4.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μ F not exceed 50 V 1 min after disconnection		N/A
	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection		N/A
	Other luminaires with capacitor > 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection		N/A
4.12. (-)	Class I luminaire with bayonet lampholder:		N/A
	1) cap not accessible with test finger		N/A
	2) metal lampholder is earthed		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12)	ENDURANCE TEST AND THERMAL TEST		P
4.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (12.7) after (9.2) before (9.3) specified in 4.13		—
4.13 (12.2)	Selection of lamps and ballasts		—
	Lamp used according Annex B	See Annex 2 for lamp used	—
	Controlgear if separate and not supplied.....	See Annex 2 for controlgear used	—
4.13 (12.3)	Endurance test:		P
	a) mounting-position	On table / standing	—
	b) test temperature (°C).....	35 °C	—
	c) total duration (h)	240 h	—
	d) if not equipped with controlgear, constant voltage/current (V) or (A)	248 V / 0,0918 A	—
	e) luminaire ceases to operate	N/A	—
4.13 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
4.13 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
4.13 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
4.13 (12.6)	Thermal test (failed lamp control gear condition):		N/A
4.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		—
	- case of abnormal conditions		—
	- electronic lamp control gear		N/A
	- measured winding temperature (°C): at 1,1 Un		—
	- measured mounting surface temperature (°C) at 1,1 Un		N/A
	- calculated mounting surface temperature (°C)		N/A
	- track-mounted luminaires		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions		—
	- thermal link		N/A
	- manual reset cut-out		N/A
	- auto reset cut-out		N/A
	- measured mounting surface temperature (°C).....:		N/A
	- track-mounted luminaires		N/A
4.13 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		P
4.13 (12.7.1)	Luminaire without temperature sensing control		N/A
4.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A
	Test method 12.7.1.1 or Annex W		—
	Test according to 12.7.1.1:		N/A
	- case of abnormal conditions		—
	- Ballast failure at supply voltage (V)		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
	Test according to Annex W:		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test.....:	See Table 4.15 (13.2.1)	N/A
4.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70W, transformer > 10 VA		N/A
	- case of abnormal conditions		—
	- measured winding temperature (°C): at 1,1 Un		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un		—
	- calculated temperature of fixing point/exposed part (°C)		—
	Ball-pressure test.....:	See Table 4.15 (13.2.1)	N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A
	- case of abnormal conditions		—
	- Components retained in place after the test		N/A
	- Test with standard test finger after the test		N/A
4.13 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link.....	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- manual reset cut-out.....	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- auto reset cut-out	Yes <input type="checkbox"/> No <input type="checkbox"/>	—
	- case of abnormal conditions		—
	- highest measured temperature of fixing point/ exposed part (°C):		—
	Ball-pressure test:.....	See Table 4.15 (13.2.1)	N/A
4.13 (-)	Indoor use luminaire, Test overturned position (overturns < 15°)	Does not overturn	P
4.14 (9)	RESISTANCE TO DUST AND MOISTURE		P
4.14 (-)	If IP > IP 20 the order of tests as specified in clause 4.12		N/A
4.14 (9.2)	Tests for ingress of dust, solid objects and moisture:		P
	- classification according to IP.....	IP20	—
	- mounting position during test.....	Standing	—
	- fixing screws tightened; torque (Nm).....	N/A	—
	- tests according to clauses	9.2.0	—
	- electric strength test afterwards		N/A
	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 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		N/A
	d) no water in watertight or pressure watertight luminaire		N/A
	e) no contact with live parts (IP 2X)		P
	e) no entry into enclosure (IP 3X and IP 4X)		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
	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		N/A
4.14 (9.3)	Humidity test 48 h		P
4-14 (-)	Portable luminaire for outdoor use tested in the most unfavourable of the overturned positions likely to occur		N/A
4.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
4.15 (10.2.1)	Insulation resistance test		P
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø		—
	Insulation resistance (MΩ)	> 4 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		N/A
	- between live parts and mounting surface	>4 MΩ	P
	- between live parts and metal parts	>4 MΩ	P
	- between live parts of different polarity through action of a switch		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A

IEC 60598-2-4			
Clause	Requirement + Test	Result - Remark	Verdict
4.15 (10.2.2)	Electric strength test		N/A
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)	1460 V (between live parts) 2920 V (between live parts and metal parts)	P
	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	1460 V	P
	- between live parts and mounting surface	2920 V	P
	- between live parts and metal parts.....	2920 V	P
	- between live parts of different polarity through action of a switch		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A
	- Insulation bushings as described in Section 5		N/A
4.15 (10.3)	Touch current or protective conductor current (mA):	< 0,7mA	P

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

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

4.7 (11.2)	TABLE I: Creepage distances and clearances						P
	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages						P
	Applicable part of IEC 60598-1 Table 11.1A*, 11.1B* and 11.2*						P
	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:	B	>3,5 mm	3,0 mm	11.1	>6,0 mm	5,0 mm	11.1
Working voltage (V)	230V					—	
PTI	< 600 <input checked="" type="checkbox"/> ≥ 600 <input type="checkbox"/>					—	
Pulse voltage if applicable (kV)						—	
Supplementary information:							
Distance 2:	-	-	-	-	-	-	-
Working voltage (V)						—	
PTI	< 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/>					—	
Pulse voltage if applicable (kV)						—	
Supplementary information:							
Distance 3:	-	-	-	-	-	-	-
Working voltage (V)						—	
PTI	< 600 <input type="checkbox"/> ≥ 600 <input type="checkbox"/>					—	
Pulse voltage if applicable (kV)						—	
Supplementary information: ** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.							

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

4.7 (11.2)	TABLE II: Creepage distances and clearances			N/A			
Minimum distances (mm) for a.c. higher than 30 kHz sinusoidal voltages							
Applicable part of IEC 61347-1 Table 7 and 8* or IEC 60664-4 Table 1 and 2							
Distances	Insulation type **	Measured clearance	Required		Measured creepage	Required	
			clearance	*Table		creepage	*Table
Distance 1:							
Working voltage (V)						—	
Frequency if applicable (kHz)						—	
PTI			< 600 <input type="checkbox"/>		≥ 600 <input type="checkbox"/>		—
Peak value of the working voltage \hat{U}_{out} if applicable (kV)						—	
Supplementary information:							
Distance 2:							
Working voltage (V)						—	
Frequency if applicable (kHz)						—	
PTI			< 600 <input type="checkbox"/>		≥ 600 <input type="checkbox"/>		—
Peak value of the working voltage \hat{U}_{out} if applicable (kV)						—	
Supplementary information:							
Distance 3:							
Working voltage (V)						—	
Frequency if applicable (kHz)						—	
PTI			< 600 <input type="checkbox"/>		≥ 600 <input type="checkbox"/>		—
Peak value of the working voltage \hat{U}_{out} if applicable (kV)						—	
Supplementary information: ** Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.							

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

IEC 60598-2-4					
Clause	Requirement + Test			Result - Remark	Verdict
4.15b (13.3.1)	TABLE: Needle-flame test (IEC 60695-11-5)				N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Supplementary information:					

4.15c (13.3.2)	TABLE: Glow-wire test (IEC 60695-2-11)				N/A
Glow wire temperature		650°C			—
Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict	
Supplementary information:					

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

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

ANNEX 1	TABLE: Critical components information						P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Plug (Class II)	A	Arditi S.p.A.	2120	2,5 A / 250 V	EN 60320	VDE, IMQ	
Supply cord	A	Arditi S.p.A.	FRDR	2x0,75 mm ² , 300/500 V	HD21	<HAR>	
Lampholder (E14)	A	Arditi S.p.A.	019399 - INSERT E14 T190 UNIVERSAL	2 A / 250 V, T190	EN 60400	ENEC	
Lampholder (E27)	A	Arditi S.p.A.	020521 - INSERT FOR LAMPHOLDE R E27 T190	4 A / 250 V, T190	EN 60400	ENEC	
Cord switch	A	Arditi S.p.A.	2130	2 A / 250 V	EN 50075	ENEC	
Supplementary information:							
¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039. The codes above have the following meaning: A - The component is replaceable with another one, also certified, with equivalent characteristics B - The component is replaceable if authorised by the test house C - Integrated component tested together with the appliance D - Alternative component ** No information provided if the cord is approved.							

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

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12		P
	Type reference	Elegance (Small)	—
	Lamp used.....	Conventional light bulb	—
	Lamp control gear used	N/A	—
	Mounting position of luminaire.....	Standing	—
	Supply wattage (W)	Max. 60 W	—
	Supply current (A).....		—
	Temperatures in test 1 - 4 below are corrected for ta (°C)	25 °C	—
	- abnormal operating mode	N/A	—
4.12 (12.4)	- test 1: rated voltage	N/A	—
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage.....	N/A	—
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	63 W	—
	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—
4.12 (12.5)	Through wiring or looping-in wiring loaded by a current of A during the test	N/A	—

Temperature measurements, (°C)

Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
Lampholder close to luminaire 60 W	25 °C	-	-	78,6	190	-	-
Mains cable inside lampholder	25 °C	-	-	50,2	190	-	-
Hand-/Cable switch	25 °C	-	-	22,8	90	-	-
Top part inside of luminaire	25 °C	-	-	43,0	90	-	-

Supplementary information:

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

ANNEX 3	Screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		N/A
(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 (mm ²)		—
(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
	External wiring		N/A
	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		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)	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:		—
	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

Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict

PHOTOGRAPHS

Model: Elegance (small)

Attachment 1: Photos

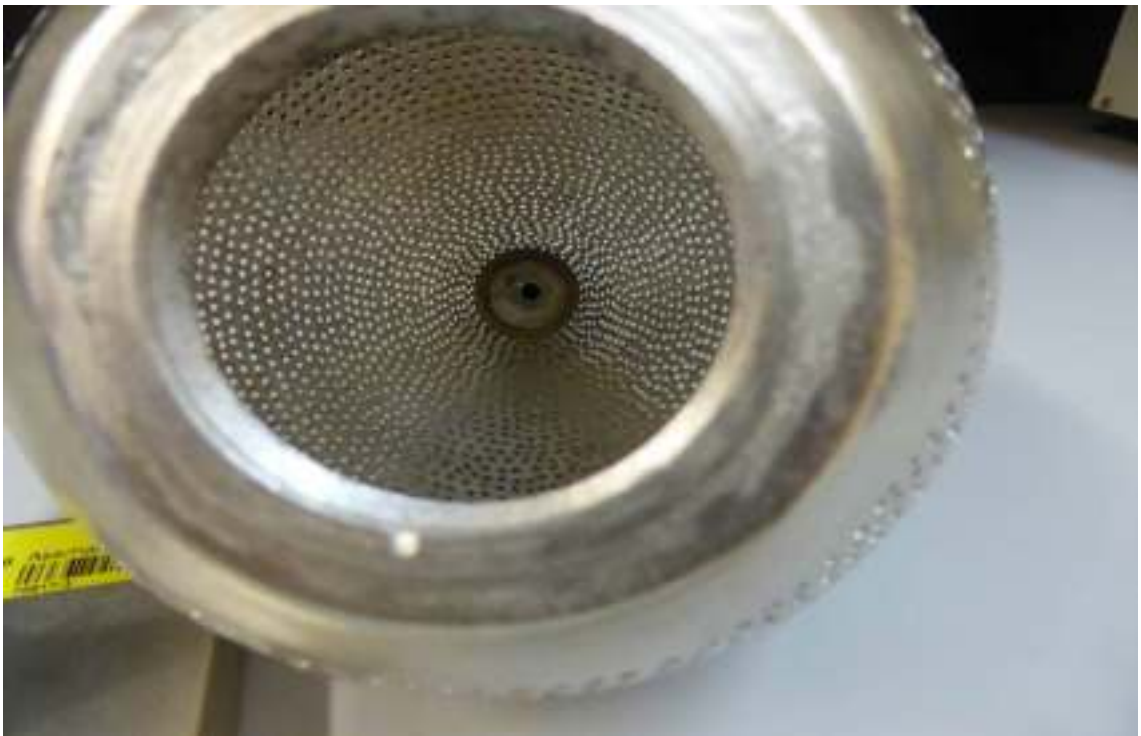
Clause	Requirement + Test	Result - Remark	Verdict
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Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict



Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict



Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict



Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict

Sample 6



Model: Princess (Large)

Attachment 1: Photos			
Clause	Requirement + Test	Result - Remark	Verdict



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Tahrir Mini



Tahrir Large



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Ball Small



Ball XL



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Egg on legs



Lampoon Small



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Babylon



Twist Small



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Elegance Mini



Tally Small



Attachment 2: Overview luminaires			
Clause	Requirement + Test	Result - Remark	Verdict

Princess Small



Boho Small



Attachment 2: Overview luminaires

Clause	Requirement + Test	Result - Remark	Verdict
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Ibiza Mini**Star**

Attachment 3: Instruction manual

Clause	Requirement + Test	Result - Remark	Verdict	
Security Notes	<p>Veiligheidsinstructies</p> <p>1) Elektrische werken mogen alleen worden uitgevoerd door een elektricien met machtiging van de voorgeschieden namen.</p> <p>2) De lamp mag alleen in droge ruimtes worden gemonteerd.</p> <p>3) Voordat u een lamp monteert, moet u de stroom afkoppelen of de stroom afkoppelen.</p> <p>4) Let op de uitleg van de montage en de waarschuwingen op de verpakking van de lamp.</p> <p>5) Gebruik alleen de op de afbeelding aangegeven lampen (type en wattage).</p> <p>6) Wanneer de lamp wordt gebruikt in een meubelstuk of wanneer er lampen op warmteaccumulatie, moet de lamp automatisch uitgaan zodra het meubel wordt gesloten.</p> <p>7) Bij wand- en plafondlampen geen warmte isolerende afdekking gebruiken.</p> <p>8) Als het elektrische kabel of de afdekking van de fitting is beschadigd, moet het exclusief worden gerepareerd door de fabrikant, zijn service agent of door een bevoegd persoon, om ongelukken te voorkomen.</p>	<p>Consignes de sécurité</p> <p>1) Ne confier l'installation électrique qu'à un spécialiste professionnel aux normes applicables.</p> <p>2) Le luminaire ne doit être monté que dans des pièces sèches.</p> <p>3) Avant le montage, le montage ou le changement d'ampoule, assurez-vous que les fils d'alimentation sont hors tension. Ne les ramettez sous tension qu'après avoir vérifié qu'ils sont terminés.</p> <p>4) Assurez-vous que dans le zone de montage vous ne touchez pas d'objet en contact avec le fil ou une ligne électrique.</p> <p>5) Utilisez (selon l'ampoule) des fils de puissance de puissance indiqués sur la plaque signalétique ou étiquette de la douille. Utilisez le type indiqué.</p> <p>6) Utilisez uniquement des matériaux en meuble, et évitez un danger d'accumulation de chaleur. Le luminaire doit s'éteindre automatiquement à la fermeture du meuble.</p> <p>7) Utilisez pour montage mural ou au plafond: ne pas utiliser de matériau isolant thermique.</p> <p>8) Si le câble électrique ou le couvercle de la fitting est endommagé, il doit être remplacé exclusivement par le fabricant ou son agent de service ou une personne qualifiée afin d'éviter tout danger.</p>	<p>Sicherheitshinweise</p> <p>1) Elektrische Arbeiten dürfen nur von einem Elektriker durchgeführt werden. Beachtung der jeweiligen anzuwendenden Normen. Ausgeführt werden.</p> <p>2) Die Leuchte darf nur in trockenen Räumen montiert werden.</p> <p>3) Vor Beginn der Montage, Reinigung oder Lampenwechsel, muss die Zuleitungen Spannungsfrei gemacht sind. Schalten Sie die Spannung erst nach Beendigung der Arbeiten wieder ein.</p> <p>4) Vergewissern Sie sich, dass Sie im Montagebereich keine elektrischen, Gas- oder Wasserleitungen beschädigen können.</p> <p>5) Verwenden Sie maximal die auf dem Typenschild bzw. bei der Montage angegebene Lampenstärke und -typ.</p> <p>6) Die Leuchte soll montiert werden in meublen aus Holz oder Kunststoff. Vermeiden Sie die Gefahr der Wärmehäufung, bis die Leuchte automatisch aus, sobald das Meubel ist geschlossen.</p> <p>7) Bei Wand- und Deckenlampen, keine wärmeisolierenden Änderungen verwenden.</p> <p>8) Wenn das elektrische Kabel oder der Deck der Leuchtegehäuse beschädigt ist, wird dieses ausschließlich vom Hersteller, seinem Servicepersonal oder von einem anderen qualifizierten Person ersetzt werden, um Gefährdungen zu vermeiden.</p>	