



TEST REPORT EN 60598-2-4

Luminaires - Part 2: Particular requirements -Section 4: Portable general purpose luminaires

Report Number:	KEYS20092501001LD-01
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Applicant's name:	Huizhou Grand Champ Lighting Technology Limited
Address:	TangKou Village,Xinxu Town,Huiyang District,Huizhou
-UC 1	City,Guangdong
Manufacturer's name:	Huizhou Grand Champ Lighting Technology Limited
Address:	TangKou Village,Xinxu Town,Huiyang District,Huizhou
	City,Guangdong
Test specification:	
Standard:	☐ IEC 60598-2-4:2017
1/	⊠ EN 60598-1:2015+A1:2018, EN 60598-2-4:2018
Test procedure::	CE-LVD
Non-standard test method::	N/A
Test item description:	floor lamp

N/A

Trade Mark....::

Model/Type reference:

Ratings.....

GL-FLWS001,GL-FLWS1001,GL-FLWS1002,GL-FLWS1006,

GL-FLWS1007,GL-FLS1008,GL-FLWS1009,GL-FLWS1010, GL-FLWS1011,GL-FLWS1012,GL-FLWS1013,GL-FLWS1014,



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List of Attachments:

Attachment 1 : National deviation for: European Group (EN 60598-1:2015+A1:2018, EN 60598-2-4:2018, EN 62493:2015).

Attachment 2: 4 pages of photos.

Summary of testing:

N/A

Testing location:

Dongguan KEYS Testing Technology Co., Ltd.

6 / f, Building B, Chuangyigu Industrial Park, No.5 Hehe Street, Songxi Road, Hengkeng, Liaobu, Dongguan City .

Summary of compliance with National Differences:

List of countries addressed: European National Differences.

☐ The product fulfils the requirements of EN 60598-1:2015+A1:2018, EN 60598-2-4:2018



Copy of marking plate:

The artwork below may be only a draft.

floor lamp

Model: GL-FLWS001 220-240V~,50Hz,150W



Huizhou Grand Champ Lighting Technology Limited Made in China



YOURSELF SUCCESSFULLY Report No.: KEYS20092501001LD-01 Test item particulars...... See test report Classification of installation and use...... Class II Supply Connection Power cord with 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: Sep.19,2020 Date (s) of performance of tests Sep.20,2020 to Sep.28,2020 **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 \square comma / \boxtimes point is used as the decimal separator. Name and address of factory (ies): Huizhou Grand Champ Lighting Technology Limited TangKou Village,Xinxu Town,HuiyangDistrict, Huizhou City, Guangdong **General product information:** 1. The products are Portable luminaires and indoor use. 2. The specified max. ambient temperature is 25°C.



Report No.: KEYS20092501001LD-01 YOURSELF SUCCESSFULLY EN 60598-2-4 Clause Requirement + Test Result - Remark Verdict 4.2 (0) **GENERAL TEST REQUIREMENTS** Ρ 4.2 (0.1) Information for luminaire design considered: Standard Yes X No \boxtimes 4.2(0.3)More sections applicable....: Yes No 4.4 (2) **CLASSIFICATION** Ρ 4.4 (2.2) Type of protection: Class II 4.4(2.3)Degree of protection....: IP20 Ρ 4.4 (2.4) Yes 🛛 No Luminaire suitable for direct mounting on normally flammable surfaces: Luminaire for normal use: Yes 🖂 No 4.4(2.5)X Yes 🗌 No Luminaire for rough service: 4.5 (3) **MARKING** 4.5 (3.2) Mandatory markings Р Position of the marking Format of symbols/text Ρ 4.5 (3.3) Additional information Ρ Language of instructions English 4.5 (3.3.1) Combination luminaires N/A 50Hz Р 4.5 (3.3.2) Nominal frequency in Hz 4.5 (3.3.3) Operating temperature N/A 4.5 (3.3.4) Symbol or warning notice N/A 4.5 (3.3.5) Wiring diagram N/A 4.5 (3.3.6) Special conditions N/A 4.5 (3.3.7) N/A Metal halide lamp luminaire – warning 4.5 (3.3.8) Limitation for semi-luminaires N/A 4.5 (3.3.9) Ρ Power factor and supply current Р 4.5 (3.3.10) Suitability for use indoors N/A 4.5 (3.3.11) Luminaires with remote control N/A 4.5 (3.3.12) Clip-mounted luminaire - warning



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Clause	Requirement + Test	Result - Remark	Verdict
4.5 (3.3.13)	Specifications of protective shields		N/A
4.5 (3.3.14)	Symbol for nature of supply		Р
4.5 (3.3.15)	Rated current of socket outlet		N/A
4.5 (3.3.16)	Rough service luminaire		N/A
4.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	type Y	Р
4.5 (3.3.18)	Non-ordinary luminaires with PVC cable		N/A
4.5 (3.3.19)	Protective conductor current in instruction if applicable	1/CUC	N/A
4.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	11000	N/A
4.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	VCU	N/A
5	Cautionary symbol	11000	N/A
4.5 (3.3.22)	Controllable luminaires, insulation		N/A
4.5 (3.4)	Test with water	12011	Р
	Test with hexane	1000	Р
1 -	Legible after test	1 4 -	Р
	Label attached	EE-07 w	Р

4.6 (4)	CONSTRUCTION	Р
4.6 (4.2)	Components replaceable without difficulty	Р
4.6 (4.3)	Wireways smooth and free from sharp edges	Р
4.6 (4.4)	Lampholders	Р
4.6 (4.4.1)	Integral lampholder	N/A
4.6 (4.4.2)	Wiring connection	N/A
4.6 (4.4.3)	Lampholder for end-to-end mounting	N/A
4.6 (4.4.4)	Positioning	N/A
100	- pressure test (N)	
	After test the lampholder comply with relevant standard sheets and show no damage	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
-4			1.0
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	CEUS	P
- []	- bending test (N):	E27:2.0Nm	_
	After test the lampholder have not moved from its position and show no permanent deformation	16UC	N/A
4.6 (4.4.5)	Peak pulse voltage	(N/A
4.6 (4.4.6)	Centre contact		N/A
4.6 (4.4.7)	Parts in rough service luminaires resistant to tracking		N/A
4.6 (4.4.8)	Lamp connectors	KED-	N/A
4.6 (4.4.9)	Caps and bases correctly used		N/A
4.6 (4.5)	Starter holders		N/A
	Starter holder in luminaires other than class II	1/6-43	N/A
	Starter holder class II construction	1100	N/A
4.6 (4.6)	Terminal blocks	5 646	N/A
-	Tails	IZCU	N/A
	Unsecured blocks	166-	N/A
4.6 (4.7)	Terminals and supply connections		N/A
4.6 (4.7.1)	Contact to metal parts	10011	N/A
4.6 (4.7.2)	Test 8 mm live conductor	ICE 3	N/A
10	Test 8 mm earth conductor	1	N/A
4.6 (4.7.3)	Terminals for supply conductors		N/A
4.6 (4.7.3.1)	Welded connections:	116	N/A
	- stranded or solid conductor	100-	N/A
(-	- spot welding		N/A
100	- welding between wires	WEL	N/A
	- Type Z attachment	160-	N/A
116	- mechanical test according to 15.8.2		N/A
166	- electrical test according to 15.9		N/A
	- heat test according to 15.9.2.3 and 15.9.2.4	1(6:	N/A
4.6 (4.7.4)	Terminals other than supply connection		N/A
4.6 (4.7.5)	Heat-resistant wiring/sleeves		N/A



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Clause	Requirement + Test	Result - Remark	Verdic
4.6 (4.7.6)	Multi-pole plug	1 1 -	N/A
	- test at 30 N	(645	N/A
4.6 (4.8)	Switches:	66-	N/A
	- adequate rating		N/A
	- adequate fixing	1/644	N/A
2.4	- polarized supply	(N/A
59	- compliance with IEC 61058-1 for electronic switches		N/A
4.6 (4.9)	Insulating lining and sleeves	17693	Р
4.6 (4.9.1)	Retainment	10-	Р
-	Method of fixing:		_
4.6 (4.9.2)	Insulated linings and sleeves	MEH	Р
-L	Resistant to a temperature > 20 °C to the wire temperature or	1100	Р
C	a) & c) Insulation resistance and electric strength	and and the	N/A
	b) Ageing test. Temperature (°C):	100	Р
4.6 (4.10)	Insulation of Class II luminaires	140	Р
4.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	1004	Р
	Safe installation fixed luminaires	ICED	Р
00	Capacitors and switches	9. 4	N/A
CE	Interference suppression capacitors according to IEC 60384-14	WEL	N/A
4.6 (4.10.2)	Assembly gaps:	166-	N/A
15	- not coincidental		N/A
10	- no straight access with test probe	1001	N/A
4.6 (4.10.3)	Retainment of insulation:	I(E)	N/A
00	- fixed		N/A
	- unable to be replaced; luminaire inoperative	7.70	N/A
	- sleeves retained in position	1/6	N/A
	- lining in lampholder	1000	N/A
4.6 (4.11)	Electrical connections		Р



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Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.11.1)	Contact pressure		Р
4.6 (4.11.2)	Screws:	1649	N/A
4.0 (4.11.2)	- self-tapping screws	1000	N/A N/A
	- thread-cutting screws		N/A
4.6 (4.11.3)	Screw locking:	7745	P
4.0 (4.11.3)	- spring washer	(-2)	Р
-u	- rivets		N/A
4.6 (4.11.4)	Material of current-carrying parts		P
4.6 (4.11.5)		1/645	
	No contact to wood or mounting surface	11	N/A P
4.6 (4.11.6)	Electro-mechanical contact systems		P
4.6 (4.12)	Mechanical connections and glands	1/CUC	
4.6 (4.12.1)	Screws not made of soft metal	ILED-	Р
	Screws of insulating material	Fixed englecures 0 FNm	P
<u> </u>	Torque test: torque (Nm); part	Fixed enclosure: 0.5Nm	
	Torque test: torque (Nm); part:	1(63)	N/A
46 (440 0)	Torque test: torque (Nm); part:		N/A
4.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A P
4.6 (4.12.4)	Locked connections:	1/64	· ·
-	- fixed arms; torque (Nm):	F07:0 0NI:	N/A
		E27:2.0Nm	P
4.0.(4.40.5)	- push-button switches; torque 0,8 Nm:	1/24	N/A
4.6 (4.12.5)	Screwed glands; force (Nm):	ILED.	N/A
4.6 (4.13)	Mechanical strength	, ,	P
4.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm):	0.0511 (N/A
	- other parts; energy (Nm):	0.35Nm for enclosure	P
166	1) live parts		P
100	2) linings	WEL	N/A
	3) protection	145-	Р
1000	4) covers		P
4.6 (4.13.3)	Straight test finger		Р



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Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.13.4)	Rough service luminaires		N/A
,	- IP54 or higher	1645	N/A
	a) fixed	10-	N/A
	b) hand-held		N/A
	c) delivered with a stand	1/545	N/A
-u	d) for temporary installations and suitable for mounting on a stand	(N/A
4.6 (4.13.6)	Tumbling barrel	5 mm 1 1 mm	N/A
4.6 (4.14)	Suspensions and adjusting devices	17693	N/A
4.6 (4.14.1)	Mechanical load:	100	N/A
\leftarrow $=$	A) four times the weight	1.000	N/A
	B) torque 2,5 Nm	NEUS	N/A
5	C) bracket arm; bending moment (Nm):	110-	N/A
CL	D) load track-mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	KEY!	N/A
	Metal rod. diameter (mm)	1100	N/A
(E)	Fixed luminaire or independent control gear without fixing devices		N/A
4.6 (4.14.2)	Load to flexible cables	100	N/A
00	Mass (kg)	9	_
(E	Stress in conductors (N/mm²)		N/A
	Mass (kg) of semi-luminaire	1/64	_
	Bending moment (Nm) of semi-luminaire:	1,0-	N/A
4.6 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles:	WEL	N/A
	- strands broken:	160-	N/A
116	- electric strength test afterwards	120.7	N/A
4.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain or conductors	WEL	N/A
4.6 (4.14.5)	Guide pulleys	1000	N/A
4.6 (4.14.6)	Strain on socket-outlets		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
4.6 (4.15)	Flammable materials:		Р
4.0 (4.10)	- glow-wire test 650°C	See Test Table 4.15 (13.3.2)	P
	- spacing ≥30 mm	000 1001 10010 1110 (10.0.2)	N/A
	- screen withstanding test of 13.3.1		N/A
_	- screen dimensions	17745	N/A
50 2.5	- no fiercely burning material	(63-	P
-U	- thermal protection		N/A
	- electronic circuits exempted		N/A
4.6 (4.15.2)	Luminaires made of thermoplastic material with lamp	control goar	N/A
4.0 (4.15.2)	a) construction	Control geal	N/A
ϵ			N/A
-	b) temperature sensing control	1/CUS	N/A
4.6.(4.46)	c) surface temperature	000	P IN/A
4.6 (4.16)	Luminaires for mounting on normally flammable surfa No lamp control gear:	(compliance with Section 12)	N/A
4.6 (4.16.1)	Lamp control gear spacing:	(compliance with Section 12)	N/A
4.0 (4.10.1)	- spacing 35 mm	1(632	N/A
-	- spacing 33 mm		N/A
4.6 (4.16.2)	Thermal protection:		N/A
4.0 (4.10.2)	- in lamp control gear	16643	N/A
	- external	1/6	N/A
\leftarrow	- fixed position		N/A
1	- temperature marked lamp control gear	IZCUS	N/A
4.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
4.6 (4.17)	Drain holes	(See Clause 12.0)	N/A
4.0 (4.17)	Clearance at least 5 mm		N/A
46 (4 10)	Resistance to corrosion:	1(63)	P
4.6 (4.18)		100	
4.6 (4.18.1)	- rust-resistance		N/A
4.6 (4.18.2)	- season cracking in copper	WELL.	N/A P
4.6 (4.18.3)	- corrosion of aluminium		
4.6 (4.19)	Igniters compatible with ballast		N/A
4.6 (4.20)	Rough service vibration		N/A



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Clause	Requirement + Test Result - Remark	Verdict
4.0 (4.04)		1 1/4
4.6 (4.21)	Protective shield:	N/A
4.6 (4.21.1)	Shield fitted	N/A
-11	Shield of glass if tungsten halogen lamps	N/A
4.6 (4.21.2)	Particles from a shattering lamp not impair safety	N/A
4.6 (4.21.3)	No direct path	N/A
4.6 (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
4.6 (4.22)	Attachments to lamps	N/A
4.6 (4.23)	Semi-luminaires comply Class II	N/A
4.6 (4.24.1)	UV radiation for tungsten halogen lamps and metal halide lamps (Annex P)	N/A
4.6 (4.24.2)	Retinal blue light hazard	N/A
	Luminaires with E _{thr}	N/A
CL	a) Fixed luminaires	N/A
,	Distance x m, borderline between RG1 and RG2:	N/A
	Marking and instruction	N/A
1-1	b) Portable and handheld luminaires	N/A
CE:	RG1 exceeded at 200 mm according to IEC/TR 62778	N/A
	Marking	N/A
(E	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12	N/A
	RG at 200 mm according to IEC/62778	N/A
4.6 (4.25)	No sharp point or edges	Р
4.6 (4.26)	Short-circuit protection:	N/A
4.6 (4.26.1)	Uninsulated accessible SELV parts	N/A
4.6 (4.26.2)	Short-circuit test	N/A
4.6 (4.26.3)	Test chain according to Figure 29	N/A
4.6 (4.27)	Terminal blocks with integrated screwless earthing contacts tested according	Annex V N/A
	Pull test of terminal fixing (20 N)	N/A
100	After test, resistance < 0,05 Ω	N/A
10 6	Pull test of mechanical connection (50 N)	N/A



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Clause	Requirement + Test	Result - Remark	Verdict
- 5	After test, resistance < 0,05 Ω		N/A
	Voltage drop test, resistance $< 0.05 \Omega$	7645	N/A
4.6 (4.28)	Fixing of thermal sensing control	10-	N/A
4.0 (4.20)	External to lamp control gear		N/A
-	Plug-in or easily replaceable type	1// 45	N/A
50 00	Adhesive fixing	(==-	N/A
-u	Positioning		N/A
		2 - 1 1 1 1 1	N/A
	Temperature (°C)	1/64	3
-	100 cycles between t min and t max	16-	N/A
4.0.(4.00)	Temperature sensing control still in position		N/A
4.6 (4.29)	Luminaires with non-replaceable light source	1/CU	N/A
5-2-72-	Replacement not possible	KC-	N/A
	Live part not accessible		N/A
	Breaking of the luminaire or its parts	12-11	N/A
	Removal of parts	1665	N/A
وسرر	Compliance with test probe		N/A
	Access to live parts		N/A
4.6 (4.30)	Luminaires with non-user replaceable light source	1/64	N/A
	Protective cover	116-	N/A
15	Fixing means		N/A
	Cautionary symbol	1001	N/A
4.6 (4.31)	Insulation between circuits	1(==	N/A
00	Transformer or control gears		N/A
	Insulation between circuits		N/A
	Circuits insulated from LV supply	116	N/A
	Insulation provided	11/2-	N/A
116	Controllable luminaires		N/A
100	Control terminals	116	N/A
	Insulation	ICE:	N/A
111	Control gear U-OUT		N/A
4.6 (4.31.1)	SELV circuits	and the same of	N/A



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- 5	Source		N/A
	Insulation between circuits	7645	N/A
	Control gear U-OUT	10-	N/A
	Plug and socket outlet		N/A
46 (4 24 2)	FELV circuits	177116	N/A
4.6 (4.31.2)		(-2)	
-ii	Source		N/A
	Insulation between circuits		N/A
	Plug and socket outlet	1/CUL	N/A
4.6 (4.31.3)	Other circuits	ILC-	N/A
CL	CI II		N/AP
C-	Equipotential bonding	16	N/A
4	All conductive part connected	1(65)	N/A
	Resistance < 0,5 Ω	1100	N/A
(m)	Insulation fault: accessible part cause electric shock	= 100	N/A
	Master/slave applications	1764	N/A
4.6 (4.32)	Overvoltage protective devices	111	N/A
161	External to lamp control gear, connected to earth		N/A
100	Fixed luminaires connected to a protective earth	1001	N/A
4.6.1 (-)	Insulation not damaged when placing on support	ICED	P
4.6.2 (-)	Wiring fixed, to avoid rubbing		Р
4.6.3 (-)	Stability (6°)		Р
4.6.4 (-)	Candlestick luminaires with switch	1/6-	N/A
4.6.5 (-)	E5 lampholders	10-	N/A

4.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		Р
4.7 (11.2)	Creepage distances and clearances:	See Table 4.7 (11.2)	Р
11.6	Working voltage (V):	220-240V~	_
100	Rated pulse voltage (kV):	1/CUS	_
	Voltage form:	Sinusoidal	_
10.6	PTI:	< 600 ⊠ ≥ 600 □	



4.8 (7)	PROVISION FOR EARTHING	
4.8 (7.2.1 + 7.2.3)	Accessible metal parts	N/A
-11	Metal parts in contact with supporting surface	N/A
-5	Resistance < 0,5 Ω:	N/A
	Self-tapping screws used	N/A
	Thread-forming screws	N/A
	Thread-forming screw used in a grove	N/A
V	Earth makes contact first	N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V	N/A
(Built-in control gear	N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.	N/A
4.8 (7.2.4)	Locking of clamping means	N/A
E.	Compliance with 4.7.3	N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V	N/A
4.8 (7.2.5)	Earth terminal integral part of connector socket	N/A
4.8 (7.2.6)	Earth terminal adjacent to mains terminals	N/A
4.8 (7.2.7)	Electrolytic corrosion of the earth terminal	N/A
4.8 (7.2.8)	Material of earth terminal	N/A
(=	Contact surface bare metal	N/A
4.8 (7.2.10)	Class II luminaire for looping-in	N/A
	Double or reinforced insulation to functional earth	N/A
4.8 (7.2.11)	Earthing core coloured green-yellow	N/A
100	Length of earth conductor	N/A

4.9 (14)	SCREW TERMINALS		N/A
17.0	Separately approved; component list:	(see Annex 1)	N/A



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	Part of the luminaire	: (see Annex 3)	N/A

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4.9 (15)	9 (15) SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
- 5	Separately approved; component list:	(see Annex 1)	N/A
	Part of the luminaire	(see Annex 4)	N/A

4.10 (5)	(5) EXTERNAL AND INTERNAL WIRING		Р
4.10 (5.2)	Supply connection and external wiring	1/645	Р
4.10 (5.2.1)	Means of connection	Power cord with plug	Р
4.10 (5.2.2)	Type of cable		Р
C -	Nominal cross-sectional area (mm²)	2x0.75 mm ²	Р
	Cables equal to IEC 60227 or IEC 60245	60227	Р
4.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	Р
4.10 (5.2.5)	Type Z not connected to screws	5 5 5	N/A
4.10 (5.2.6)	Cable entries:	1/645	Р
to trouters	- suitable for introduction	1/6	Р
	- adequate degree of protection		Р
4.10 (5.2.7)	Cable entries through rigid material have rounded edges	KEYS	Р
4.10 (5.2.8)	Insulating bushings:	110	N/A
(-	- suitably fixed		N/A
1	- material in bushings	1/CUC	N/A
	- material not likely to deteriorate	160-	N/A
15	- tubes or guards made of insulating material		N/A
4.10 (5.2.9)	Locking of screwed bushings		N/A
4.10 (5.2.10)	Cord anchorage:	RED.	Р
166	- covering protected from abrasion		Р
100	- clear how to be effective	. 1/CU	Р
	- no mechanical or thermal stress	1660	Р
116	- no tying of cables into knots etc.		Р
	- insulating material or lining		Р



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Clause	Requirement + Test	Result - Remark	Verdict	
4.10 (5.2.10.1)	Cord anchorage for type X attachment:	IZEUS	N/A	
	a) at least one part fixed	11000	N/A	
= 4	b) types of cable		N/A	
	c) no damaging of the cable	1//UC	N/A	
	d) whole cable can be mounted	ICED-	N/A	
-U	e) no touching of clamping screws		N/A	
	f) metal screw not directly on cable	2 1 17	N/A	
	g) replacement without special tool	17693	N/A	
	Glands not used as anchorage	10-	N/A	
	Labyrinth type anchorages	1 1010	N/A	
4.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	type Y	P	
4.10 (5.2.10.3)	Tests:		Р	
	- impossible to push cable; unsafe	17.64	Р	
	- pull test: 25 times; pull (N)	: 60N	Р	
	- torque test: torque (Nm)	: 0.25Nm	Р	
	- displacement ≤ 2 mm	<2mm	Р	
2.03	- no movement of conductors	ICED	Р	
1	- no damage of cable or cord	9.79	Р	
4.10 (5.2.11)	External wiring passing into luminaire	WEL	N/A	
4.10 (5.2.12)	Looping-in terminals	166-	N/A	
4.10 (5.2.13)	Wire ends not tinned	wel	N/A	
	Wire ends tinned: no cold flow	166-	N/A	
4.10 (5.2.14)	Mains plug same protection		N/A	
100	Class III luminaire plug	1/6	N/A	
	No unsafe compatibility	3 1/	N/A	
4.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A	



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Clause	Requirement + Test	Result - Remark	Verdict
- 41	Installation couplers (IEC 61535)		N/A
	Other appliance inlet or connector	1649	N/A
	Relevant IEC standard	(5	N/A
4.10	No standardized interconnecting cables properly		N/A
(5.2.17)	assembled	1/145	- 15
4.10 (5.2.18)	Used plug in accordance with	KEDO	N/A
- 5	- IEC 60083		N/A
	- other standard	1/645	Р
4.10 (5.3)	Internal wiring	16	Р
4.10 (5.3.1)	Internal wiring of suitable size and type		Р
V	Through wiring	· · · · · · · ·	N/A
	- not delivered/ mounting instruction	1(63-	N/A
100	- factory assembled	1 4 4	N/A
C:	- socket outlet loaded (A):		N/A
	- temperatures	(see Annex 2)	N/A
	Green-yellow for earth only	1100	N/A
4.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		Р
	Cross-sectional area (mm²):	KED.	P
00	Insulation thickness		Р
	Extra insulation added where necessary		Р
4.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal co	urrent-limiting device	N/A
(E	Adequate cross-sectional area and insulation thickness		N/A
4.10 (5.3.1.3)	Double or reinforced insulation for class II	KES	P
4.10 (5.3.1.4)	Conductors without insulation		N/A
4.10 (5.3.1.5)	SELV current-carrying parts	1(65	N/A
4.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A



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Clause	Requirement + Test	Result - Remark	Verdict		
4.10 (5.3.2)	Sharp edges etc.		Р		
	No moving parts of switches etc.	1(690	N/A		
-11	Joints, raising/lowering devices	100	N/A		
- 5	Telescopic tubes etc.		N/A		
	No twisting over 360°	1/644	Р		
4.10 (5.3.3)	Insulating bushings:	110-	N/A		
$=$ \vee	- suitable fixed		N/A		
<u>_</u>	- material in bushings	1/CLIC	N/A		
	- material not likely to deteriorate	ICE 2 -	N/A		
CL	- cables with protective sheath		N/A		
4.10 (5.3.4)	Joints and junctions effectively insulated	17	N/A		
4.10 (5.3.5)	Strain on internal wiring	1(65)	N/A		
4.10 (5.3.6)	Wire carriers	100	N/A		
4.10 (5.3.7)	Wire ends not tinned	2 14	N/A		
	Wire ends tinned: no cold flow	17.54	N/A		

4.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		Р
4.11 (8.2.1)	Live parts not accessible	WOUL	Р
	Basic insulated parts not used on the outer surface without appropriate protection	KED-	Р
(E	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	16645	Р
10	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	100-	N/A
10	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	ICE'S	Р
ICE	Basic insulation only accessible under lamp or starter replacement		Р
	Protection in any position	1/64	Р
	Double-ended tungsten filament lamp	110-	N/A
1/6	Insulation lacquer not reliable		Р



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Clause	Requirement + Test	Result - Remark	Verdict
- 41	Double-ended high pressure discharge lamp		N/A
		1649	N/A
	Relevant warning according to 3.2.18 fitted to the luminaire	(677	IN/A
4.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		Р
4.11 (8.2.3.a)	Class II luminaire:	(EBD	Р
54	- basic insulated metal parts not accessible during starter or lamp replacement		N/A
	- basic insulation not accessible other than during starter or lamp replacement	(E33	N/A
EL	- glass protective shields not used as supplementary insulation		N/A
4.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed	1(E7)	N/A
4.11 (8.2.3.c)	Class III luminaires with exposed SELV parts:		N/A
	Ordinary luminaire:	1/644	N/A
	- touch current:	110-	N/A
	- no-load voltage:		N/A
100	Other than ordinary luminaire:	10000	N/A
	- nominal voltage:	ICED.	N/A
4.11 (8.2.4)	Portable luminaire have protection independent of supporting surface		Р
4.11 (8.2.5)	Compliance with the standard test finger or relevant probe	ICEU:	Р
4.11 (8.2.6)	Covers reliably secured		Р
4.11 (8.2.7)	Discharging of capacitors ≥ 0,5 μF		N/A
	Portable plug connected luminaire with capacitor	116-4	N/A
	Other plug connected luminaire with capacitor	11000	N/A
106	Discharge device on or within capacitor		N/A
100	Discharge device mounted separately	1/64	N/A
4.11.1 (-)	Class I luminaire with bayonet lampholder:	160-	N/A
116	- cap not accessible with test finger		N/A
11/4	- metal lampholder is earthed	1.00	N/A



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Requirement + Test	Result - Remark	Verdict
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4.12 (12)	ENDURANCE TEST AND THERMAL TEST		Р
4.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) a 4.13	after (9.2) before (9.3) specified in	
4.12 (12.3)	Endurance test:	11/15	Р
	- mounting-position:	As normal used	_
-U	- test temperature (°C):	35°C	_
	- total duration (h):	240h	_
	- supply voltage: Un factor; calculated voltage (V):	264V	_
-1	- lamp used:	Incandescent lamp	_
4.12 (12.3.2)	After endurance test:	VCUS	Р
	- no part unserviceable	1667-	Р
	- luminaire not unsafe		Р
	- no damage to track system	12 C 1 1 C	N/A
	- marking legible	1000	Р
1 - 1	- no cracks, deformation etc.		Р
4.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Р
4.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
4.12 (12.6)	Thermal test (failed lamp control gear condition):	110-	N/A
4.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A):		_
	- case of abnormal conditions:	1(632	_
-	- electronic lamp control gear		N/A
$(\in$	- measured winding temperature (°C): at 1,1 Un:		_
	- measured mounting surface temperature (°C) at 1,1 Un:	KEA:	N/A
116	- calculated mounting surface temperature (°C):		N/A
160	- track-mounted luminaires		N/A
4.12 (12.6.2)	Temperature sensing control	ICE -	N/A
116	- case of abnormal conditions:		



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Clause	Requirement + Test	Result - Remark	Verdict	
-4	- thermal link		N/A	
		1545		
	- manual reset cut-out	(600	N/A	
	- auto reset cut-out		N/A	
	- measured mounting surface temperature (°C):		N/A	
	- track-mounted luminaires	(645	N/A	
4.12 (12.7)	Thermal test (failed lamp control gear in plastic lumina	aires):	N/A	
4.12 (12.7.1)	Luminaire without temperature sensing control		N/A	
4.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	I(E22	N/A	
	Test method 12.7.1.1 or Annex W:		_	
/	Test according to 12.7.1.1:	11/CUC	N/A	
	- case of abnormal conditions:	ICED-	_	
7	- Ballast failure at supply voltage (V):		_	
	- Components retained in place after the test		N/A	
	- Test with standard test finger after the test	106-31	N/A	
وسرر	Test according to Annex W:		N/A	
	- case of abnormal conditions:	10-01 w W	_	
	- measured winding temperature (°C): at 1,1 Un:	1/64	3 -	
10	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	1000	_	
10	- calculated temperature of fixing point/exposed part (°C):	1/EUS	_	
	Ball-pressure test:	See Table 4.15 (13.2.1)	N/A	
4.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	N/A	
	- case of abnormal conditions:	1(-5	_	
	- measured winding temperature (°C): at 1,1 Un:		_	
ICE	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	WELL	(-	
.,,	- calculated temperature of fixing point/exposed part (°C)	166-	_	
ILE	Ball-pressure test:	See Table 4.15 (13.2.1)	N/A	



Report No.: KEYS20092501001LD-01 YOURSELF SUCCESSFULLY EN 60598-2-4 Clause Requirement + Test Result - Remark Verdict 4.12 Luminaire with short circuit proof transformers N/A (12.7.1.3)≤ 10 VA - case of abnormal conditions: - Components retained in place after the test N/A - Test with standard test finger after the test N/A 4.12 Luminaire with temperature sensing control N/A (12.7.2)No - thermal link: Yes No - manual reset cut-out: Yes - auto reset cut-out: Yes 🗌 No - case of abnormal conditions: - highest measured temperature of fixing point/ exposed part (°C):: Ball-pressure test:: See Table 4.15 (13.2.1) N/A 4.12 (-) N/A Test overturned position (overturns < 15°)

4.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MO	ISTURE	Р
4.13 (-)	If IP > IP 20 the order of tests as specified in clause 4.12		Р
4.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	1/CUS	_
	- classification according to IP:	IP20	_
15	- mounting position during test:		_
1	- fixing screws tightened; torque (Nm):	1//11/	_
	- tests according to clauses:		_
- electric strength test afterwards			N/A
$C \subset$	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire	176-51	N/A
110	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard	1,	N/A
160	d) i) For luminaires without drain holes – no water entry	1164	N/A
116	d) ii) For luminaires with drain holes – no hazardous water entry	100	N/A
17.2	e) no water in watertight luminaire		N/A



4.13 (9.3)

Humidity test 48 h

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Clause Requirement + Test Result - Remark Verdict

f) no contact with live parts (IP 2X)

f) no entry into enclosure (IP 3X and IP 4X)

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

24°C, 93%RH

N/A P

h) no damage of protective shield or glass envelope

4.14 (10)	INSULATION RESISTANCE AND ELECTRIC STREN	GTH	Р
4.14 (10.2.1)	Insulation resistance test		Р
_	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø:	11645	_
	Insulation resistance (M Ω)	11000	
()	SELV	5 G 1400	N/A
	- between current-carrying parts of different polarity:	17645	N/A
-	- between current-carrying parts and mounting surface	1000	N/A
, C	- between current-carrying parts and metal parts of the luminaire:	VEUS	N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	ICC	N/A
1	- Insulation bushings as described in Section 5:	1/649	N/A
	Other than SELV	1667-	Р
16	- between live parts of different polarity:	>100 MΩ	Р
11	- between live parts and mounting surface:	>100 MΩ	Р
	- between live parts and metal parts	>100 MΩ	Р
ICE	- 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:	KEA:	N/A
17.6	- Insulation bushings as described in Section 5:		N/A



	EN 60598-2-4	$C \subseteq G \subseteq G$	
Clause	Requirement + Test	Result - Remark	Verdict
4.14 (10.2.2)	Electric strength test	1545	Р
	Dummy lamp	10	N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors	1/ LUG	N/A
	Test voltage (V):	CED-	Р
-U	SELV		N/A
	- between current-carrying parts of different polarity:	5 cm 4 1 F	N/A
	- between current-carrying parts and mounting surface:	I(ES:	N/A
EF	- between current-carrying parts and metal parts of the luminaire		N/A
-1	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	KEA:	N/A
E.	- Insulation bushings as described in Section 5:	_ 7 97	N/A
	Other than SELV	1764	Р
	- between live parts of different polarity:	1480Vac	Р
	- between live parts and mounting surface:	1480Vac	Р
, - -	- between live parts and metal parts:	1480Vac	Р
	- between live parts of different polarity through action of a switch	KEZ	N/A
(E	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	KEY	N/A
	- Insulation bushings as described in Section 5:	10-	N/A
4.14 (10.3)	Touch current or protective conductor current (mA):	1.04mA<3.5mA	Р

4.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		
4.15 (13.2.1)	Ball-pressure test:	See Test Table 4.15 (13.2.1)	Р
4.15 (13.3.1)	Needle-flame test (10 s):	See Test Table 4.15 (13.3.1)	Р
4.15 (13.3.2)	Glow-wire test (650°C):	See Test Table 4.15 (13.3.2)	Р



Report No.: KEYS20092501001LD-01 YOURSELF SUCCESSFULLY EN 60598-2-4 Clause Requirement + Test Result - Remark Verdict 4.15 Proof tracking test (IEC 60112)....: N/A (13.4.1)- part tested: N/A 4.7 (11.2) TABLE: Clearance and creepage distance measurements Class of luminaire Class I Class II Class III Category II Impulse withstand category...... | Category I Clearance (cl) and Required U peak U r.m.s. Measured Insulatio Required Measured creepage distance (cr) n type (V) (V) cl (mm) cr (mm) cr (mm) at/of/between: (mm) Current-carrying parts of В 240V 1.5 >3.0 2.5 >3.0 different polarity Current-carrying parts and В 240V 1.5 >3.0 2.5 >3.0 accessible parts Supplementary information: B - Basic; S - Supplementary; R - Reinforced 4.15 Ρ **TABLE: Ball Pressure Test of Thermoplastics** (13.2.1)Allowed impression diameter (mm): Object/ Part No./ Material Manufacturer/ Test temperature (°C) Impression diameter (mm) trademark Lampholder 125 1.09 Supplementary information: --4.15 N/A TABLE: Needle-flame test (IEC 60695-11-5) (13.3.1)Object/ Part No./ Manufacturer/ Duration of Ignition of **Duration of** Material trademark application of test specified layer burning (tb) Verdict flame (ta); (s) Yes/No (s) Supplementary information:--4.15 N/A TABLE: Glow-wire test (IEC 60695-2-11) (13.3.2)Glow wire temperature:: 650°C



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Clause	Requirement + Test	45 1	Result - Remark	Verdict	

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		
Lampholder	1000	30s	No	10s	Р		
Any flame or glowing of the sample extinguished within 30 s of withdrawing the glow-wire, and any burning or molten drop did not ignite the underlying parts (Yes/No):							
Supplementary information:							

ANNEX 1	TABLE:	ABLE: Critical components information					
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Plug	В	Interchangeable	Interchangeab le	250V 4A		VDE	
Power cord	В	Interchangeable	Interchangeab le	2x0.75mm ²		VDE	
Heat shrinkable	В	Interchangeable	Interchangeab le	VW-1 125℃ 0.6KV		Test with appliance	
Lampholder	В	Interchangeable	Interchangeab le	250V 4A		VDE	

Supplementary information:

The codes above have the following meaning:

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

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12		
CE	Type reference:	GL-FLWS001	_
	Lamp used:	Incandescent lamp	_
	Lamp control gear used:	No use	_
ICE	Mounting position of luminaire:	See product manual	_
	Supply wattage (W):	150W	_
	Supply current (A):	110-	_
1/6	Calculated power factor:		_

¹⁾ Provided evidence ensures the agreed level of compliance..



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Clause	Requirement + Test	Result - Remark	Verdict

	Table: measured temperatures corrected for ta=25 °C		1.0
	- abnormal operating mode:	(633	_
- 1	- test 1: rated voltage		_
=	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:	1.06×240V=254.4V	_
-1	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	(62-	_
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage:	VCUS	_
	Through wiring or looping-in wiring loaded by a current of A during the test:	KEDS	_

Temperature measurements, (°C)

Ambient		Clause 12.4 – normal				Clause 12.5 – abnormal	
Ambient	test 1	test 2	test 3	limit	test 4	limit	
Supply cords	1.00	36.3		90	17.00	- 1	
Plug		39.6	(SSS)	90		1	
Lamp holder	1-6	74.6		210			
Accessible surface(non-metallic)	F.P.	40.1		90	-115		
Mounting surface		31.3	100	90	- 1)	
Ambient	(25.1		Ref.			

Supplementary information:

ANNEX 3	NNEX 3 Screw terminals (part of the luminaire)	
(14)	N/A	
(14.2)	Type of terminal:	222 -
	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
1/6	Cross-sectional area (mm²):	_



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Clause	Requirement + Test	Result - Remark	Verdict
(14.3.3)	Conductor space (mm):	115	N/A
(14.4)	Mechanical tests	(690	N/A
(14.4.1)	Minimum distance	6	N/A
(14.4.2)	Cannot slip out		N/A
(14.4.3)	Special preparation	1/644	N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread):	M	N/A
	External wiring		N/A
-	No soft metal	. / CUC	N/A
(14.4.5)	Corrosion	ICED-	N/A
(14.4.6)	Nominal diameter of thread (mm):		N/A
C -	Torque (Nm):	17	N/A
(14.4.7)	Between metal surfaces	1665	N/A
	Lug terminal		N/A
(Mantle terminal		N/A
	Pull test; pull (N):	17.54	N/A
(14.4.8)	Without undue damage	166-	N/A

ANNEX 4	Screwless terminals (part of the luminaire)	N/A		
(15)	SCREWLESS TERMINALS			
(15.2)	Type of terminal:	_		
	Rated current (A):	_		
(15.3.1)	Material	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		
16.5	Type of conductor	N/A		



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Clause	Requirement + Test	Result - Remark	Verdict
(15.5.1)	Terminals internal wiring		N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples):	7645	N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	-	N/A
- 5	Insertion force not exceeding 50 N		N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)	1/644	N/A
(15.5.2)	Electrical tests	11-	N/A
$=$ \cup	Voltage drop (mV) after 1 h (4 samples):		N/A
	Voltage drop of two inseparable joints	· / CLIC	N/A
	Number of cycles:	ICED-	_
65	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	KEY:	N/A
EL	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):	ICE'S	N/A
(15.6)	Terminals external wiring	10.79	N/A
E.	Terminal size and rating		N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N):	I(E)	N/A
(E	Pull test pin or tab terminals (4 samples); pull (N):		N/A

15.6.3.1)	TABLE: Contact resistance test								N/A		
(=	Volta	ge drop (mV	') after 1	h							_
terminal 1 2 3 4 5 6 7 8 9										10	
oltage dro	p (mV)	1		16				1/	-		
116	ļ	Voltage dro	p of two	insepara	able joints	3					
100	0	Voltage dro	p after 1	10th alt. 2	25th cycle)		100	1	U.S	
		Max. allowe	ed voltag	ge drop (r	mV)	:		- 17	\subset		_
erminal		1	2	3	4	5	6	7	8	9	10
oltage dro	p (mV)	1000								1.11	
		1		100	1	16		- 10			
	p (mV)	45	2	3	4	3	6	7	0		9



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 Result - Remark
 Verdict

	Voltage dro	op after 5	0th alt. 1	00th cyc	le		an 1	16		
	Max. allow	ed voltag	ge drop (r	mV)	:					_
terminal	1	2	3	4	5	6	7	8	9	1
voltage drop (mV)	1.0	3								-1
	Continued	ageing: v	voltage d	rop after	10th alt.	25th cyc	le	4	2	
-115	Max. allow	ed voltag	ge drop (r	mV)	:	11/	-			_
terminal	1	2	3	4	5	6	7	8	9	1
voltage drop (mV)						11.0	1			
	Continued	ageing: v	voltage d	rop after	50th alt.	100th cy	cle			
CUC	Max. allow	ed voltaç	ge drop (r	mV)	:					_
terminal	1	2	3	4	5	6	7	8	9	1
voltage drop (mV)				1.6						
		10			0	- 0				



ATTACHMENT 1 National Difference

Report No.: KEYS20092501001LD-01

ATTACHMENT TO TEST REPORT EN 60598-2-4 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Luminaires

Part 2: Particular requirements
Section 4: Portable general purpose luminaires

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

EN 60598-1:2015+A1:2018

Annex Form No...... EU_GD_IEC60598_2_4C

Annex Form Originator: OVE

Master Annex Form: 2015-04

CU	CENELEC COMMON MODIFICATIONS (EN)	Р			
\subset		115			
4.5 (3)	MARKING	P			
4.5 (3.3.101)	.5 (3.3.101) For luminaires not supplied with terminal block: Adequate warning on the package				
. ~ -	- 1/6	- 44			
4.6 (4)	CONSTRUCTION	P			
4.6 (4.11.6)	Electro-mechanical contact systems	Р			
-		-115			
4.10 (5)	EXTERNAL AND INTERNAL WIRING	P			
4.10 (5.2.1)	Connecting leads	N/A			
(E:	- without a means for connection to the supply	N/A			
	- terminal block specified	N/A			
27000	- relevant information provided	N/A			
(E	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	N/A			
4.10 (5.2.2)	Cables equal to EN 50525	N/A			
	Replace table 5.1 – Supply cord	Р			
ICE	J	Committee of the last			
4.12 (12)	ENDURANCE TESTS AND THERMAL TESTS	Р			
1 12 (12 1 20)	Thormal test (normal operation)				



ATTACHMENT 1 National Difference

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	Р
(3.3)	DK: power supply cords of class I luminaires with label	N/A
(4.5.1)	DK: socket-outlets	N/A
(5.2.1)	CY, DK, FI, GB: type of plug	Р

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A	N/A
EL	FR: Safety requirements for high buildings (Arrêté du 30 décembre 2011 portant règlement de sécurité pour la construction des immeubles de grande hauteur et leur protection contre les risques d'incendie et de panique; Section VIII; Article GH 48, Eclairage) Glow-wire test for outer parts of luminaires:	N/A
6	- 850°C for luminaires in stairways and horizontal travel paths	N/A
	- 650°C for indoor luminaires	N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation	N/A























--- End of Report ---