



TEST REPORT IEC 60598-1&IEC 60598-2-4 Luminaires Part 2: Particular requirements Section Four – Portable general purpose luminaires	
Report reference No.....:	ZKT-25081119333S
Date of issue.....:	Aug. 18, 2025
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Testing Laboratory Name	Shenzhen ZKT Technology Co., Ltd.
Address	1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue, Fuhai Street, Bao'an District, Shenzhen, China
Applicant's Name	Advanced Health Solutions B.V.
Address	Veerstraat 13A 1404CG, Bussum Noord-Holland The Netherlands
Test specification	
Standard.....:	EN 60598-2-4:2018 EN IEC 60598-1: 2021+A11:2022
Test procedure	CE-LVD
Non-standard test method.....:	N/A
Test Report Form No.....:	IEC60598_2_4I
Test Report Form(s) Originator.....:	UL (US)
Master TRF.....:	Dated 2021-06-10
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Test item description	LED THERAPY LIGHT
Trademark	
Manufacturer.....:	Advanced Health Solutions B.V. Veerstraat 13A 1404CG, Bussum Noord-Holland The Netherlands
Model and/or type reference	ATP PRO 1500 ATP PRO 700, ATP PRO 350
Rating(s).....:	Input: 100-240V~, 50/60Hz, 637W, 6.39A



Testing procedure and testing location:

Testing Laboratory.....: **Shenzhen ZKT Technology Co., Ltd.**

Address.....: 1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Date of Test.....: Aug. 08, 2025 to Aug. 18, 2025

Tested by (name + signature).....: Bowers Zhang

Reviewer by (name + signature).....: Peter Huang

Approved by (name + signature).....: Awen He



**Possible test case verdicts:**

- test case does not apply to the test object..... : N/A (Not applicable)
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

Testing

Date of receipt of test item..... : Aug. 08, 2025

Date(s) of performance of tests..... : Aug. 08, 2025 to Aug. 18, 2025

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

General product information:

- The manufacturer specified maximum ambient temperature is 25°C.
- This product is LED THERAPY LIGHT
- All the model are the same circuit , only the model name are different.



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

- Attachment I : 3 pages for EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
- Attachment II: 2 pages for Photo documentation.

Summary of testing:

Tests performed (name of test and test clause):

- EN 60598-2-4:2018
- EN IEC 60598-1:2021+A11:2022

Testing location:

Shenzhen ZKT Technology Co., Ltd.
1/F, No. 101, Building B, No. 6, Tangwei Community
Industrial Avenue, Fuhai Street, Bao'an District,
Shenzhen, China

Copy of Marking Plate:

LED THERAPY LIGHT
Model: ATP PRO 1500
Input: 100-240V~, 50/60Hz, 637W, 6.39A



Manufacturer : Advanced Health Solutions B.V.
Address : Veerstraat 13A 1404CG, Bussum Noord-Holland The
Netherlands

Remark on above marking:

- 1, The height of CE symbols is more than 5 mm;
- 2, The height of WEEE symbols is more than 7 mm;

Summary of testing:

These series appliances are LED THERAPY LIGHT, All tests were conducted at the model of ATP PRO 1500. The test results comply with the requirement of the relevant standards.



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict

4.2 (0)	GENERAL TEST REQUIREMENTS		P
4.2 (0.1)	Information for luminaire design considered.....	Standard Yes ☒ No ☐	—
4.2 (0.3)	More sections applicable.....	Yes ☐ No ☒	—

4.4 (2)	CLASSIFICATION		P
4.4 (2.2)	Type of protection	Class I	—
4.4 (2.3)	Degree of protection.....	IP20	—
4.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces.....	Yes ☒ No ☐	—
	Luminaire not suitable for direct mounting on normally flammable surfaces.....	Yes ☐ No ☒	—
4.4 (2.5)	Luminaire for normal use	Yes ☒ No ☐	—
	Luminaire for rough service	Yes ☐ No ☒	—

4.5 (3)	MARKING		P
4.5 (3.2)	Mandatory markings	(See marking plate)	P
	Position of the marking	On the enclosure	P
	Format of symbols/text	Symbols: 5.0mm min; Letter: 2.0 mm min.	P
4.5 (3.3)	Additional information	User manual provided	P
	Language of instructions	English	P
4.5 (3.3.1)	Combination luminaires		N/A
4.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
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)	Metal halid lamp luminaire – warning		N/A
4.5 (3.3.8)	Limitation for semi-luminaires		N/A
4.5 (3.3.9)	Power factor and supply current		N/A
4.5 (3.3.10)	Suitability for use indoors		P
4.5 (3.3.11)	Luminaires with remote control		N/A
4.5 (3.3.12)	Clip-mounted luminaire – warning		N/A
4.5 (3.3.13)	Specifications of protective shields		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.5 (3.3.14)	Symbol for nature of supply	~	P
4.5 (3.3.15)	Rated current of socket outlet	Not provided 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	P
4.5 (3.3.18)	Non-ordinary luminaires with PVC cable	The equipment is ordinary luminaire	N/A
4.5 (3.3.19)	Protective conductor current in instruction if applicable		N/A
4.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach		N/A
4.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided		P
	Cautionary symbol		N/A
4.5 (3.3.22)	Controllable luminaires, insulation		N/A
4.5 (3.4)	Test with water	15s	P
	Test with hexane	15s	P
	Legible after test	The marking is legible	P
	Label attached		P

4.6 (4)	CONSTRUCTION		P
4.6 (4.2)	Components replaceable without difficulty		N/A
4.6 (4.3)	Wireways smooth and free from sharp edges		P
4.6 (4.4)	Lampholders		P
4.6 (4.4.1)	Integral lampholder		P
4.6 (4.4.2)	Wiring connection		P
4.6 (4.4.3)	Lampholder for end-to-end mounting		N/A
4.6 (4.4.4)	Positioning		N/A
	- pressure test (N)		N/A
	After test the lampholder comply with relevant standard sheets and show no damage		N/A
	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation		N/A
	- bending test (N)	2.0Nm	P
	After test the lampholder have not moved from its position and show no permanent deformation		P
4.6 (4.4.5)	Peak pulse voltage		N/A
4.6 (4.4.6)	Centre contact		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.6 (4.4.7)	Parts in rough service luminaires resistant to tracking	Ordinary luminaires	N/A
4.6 (4.4.8)	Lamp connectors	No lamp connector provided	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		N/A
	Starter holder class II construction		N/A
4.6 (4.6)	Terminal blocks		N/A
	Tails		N/A
	Unsecured blocks		N/A
4.6 (4.7)	Terminals and supply connections		P
4.6 (4.7.1)	Contact to metal parts		P
4.6 (4.7.2)	Test 8mm live conductor		N/A
	Test 8mm earth conductor		N/A
4.6 (4.7.3)	Terminals for supply conductors		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
4.6 (4.7.6)	Multi-pole plug		N/A
4.6 (4.8)	Switches:		P
	- adequate rating		P
	- adequate fixing		P
	- polarized supply		P
4.6 (4.9)	Insulating lining and sleeves		N/A
4.6 (4.9.1)	Retainment		N/A
	Method of fixing..... :		N/A
4.6 (4.9.2)	Insulated linings and sleeves		N/A
	a) & c) Insulation resistance and electric strength		N/A
	b) Ageing test. Temperature (°C) :		N/A
4.6 (4.10)	Double and reinforced insulation		N/A
4.6 (4.10.1)	No contact, mounting surface - accessible metal parts - wiring of basic insulation		N/A
	Safe installation fixed luminaires		N/A
	Capacitors		N/A
	Interference suppression capacitors according to IEC 60384-14	No such capacitor	N/A
4.6 (4.10.2)	Assembly gaps:		P
	- not coincidental		P
	- no straight access with test probe		P



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.6 (4.10.3)	Retainment of insulation:		P
	- fixed		P
	- unable to be replaced; luminaire inoperative		P
	- sleeves retained in position		P
	- lining in lampholder		P
4.6 (4.11)	Electrical connections and current-carrying parts		P
4.6 (4.11.1)	Contact pressure	Not transmitted through insulating material	P
4.6 (4.11.2)	Screws:		N/A
	- self-tapping screws	Self-tapping screws not used	N/A
	- thread-cutting screws	Thread-cutting screws not used	N/A
	- at least two self-tapping screws		N/A
4.6 (4.11.3)	Screw locking:		N/A
	- spring washer		N/A
	- rivets		N/A
4.6 (4.11.4)	Material of current-carrying parts	copper	P
4.6 (4.11.5)	No contact to wood or mounting surface		P
4.6 (4.11.6)	Electro-mechanical contact systems		N/A
4.6 (4.12)	Mechanical connections and glands		P
4.6 (4.12.1)	Screws not made of soft metal		P
	Screws of insulating material		N/A
	Torque test: torque (Nm); part..... :	0.8Nm	P
	Torque test: torque (Nm); part..... :		N/A
	Torque test: torque (Nm); part..... :		N/A
4.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal		N/A
4.6 (4.12.4)	Locked connections:		P
	- fixed arms; torque (Nm)..... :	No such fixed arms	N/A
	- lampholder; torque (Nm)..... :	2,0Nm	P
	- push-button switches; torque 0,8 Nm..... :		N/A
4.6 (4.12.5)	Screwed glands; force (N)..... :	No such Screwed glands	N/A
4.6 (4.13)	Mechanical strength		P



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.6 (4.13.1)	Impact tests:		P
	- fragile parts; energy (Nm).....:		N/A
	- other parts; energy (Nm)..... :	0.5Nm for lampholder	P
	1) live parts		P
	2) linings		N/A
	3) protection		P
	4) covers		P
4.6 (4.13.3)	Straight test finger		P
4.6 (4.13.4)	Rough service luminaires		N/A
	a) fixed	Ordinary luminaire	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
4.6 (4.13.6)	Tumbling barrel	Not plug-ballast/transformer and mains socket-outlet-mounted luminaires	N/A
4.6 (4.14)	Suspensions and adjusting devices		N/A
4.6 (4.14.1)	Mechanical load:		N/A
	A) four times the weight	Not suspended luminaire	N/A
	B) torque 2,5 Nm		N/A
	C) bracket arm; bending moment (Nm).....:		N/A
	D) load track- mounted luminaires		N/A
	E) clip-mounted luminaires, glass-shelve. Thickness (mm)		N/A
	metal rod. Diameter (mm)		N/A
4.6 (4.14.2)	Load to flexible cables		N/A
	Mass (kg).....:	Not suspended by flexible cables	N/A
	Stress in conductors (N/mm ²).....:		N/A
	Semi-luminaires – mass (kg)		N/A
	Semi-luminaires – bending moment (Nm).....:		N/A
4.6 (4.14.3)	Adjusting devices:		N/A
	- flexing test; number of cycles..... :	No adjusting devices	N/A
	- strands broken		N/A
	- electric strength test afterwards		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	No telescopic tubes	N/A
4.6 (4.14.5)	Guide pulleys	No guide pulleys	N/A
4.6 (4.14.6)	Strain on socket-outlets	No socket-outlet	N/A
4.6 (4.15)	Flammable materials:		N/A
	- glow-wire test 650 °C		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
4.6 (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
4.6 (4.16)	Luminaires for mounting on normally flammable surface		N/A
	No lamp control gear		N/A
4.6 (4.16.1)	Lamp control gear spacing:		N/A
	- spacing 35 mm		N/A
	- spacing 10 mm		N/A
4.6 (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
4.6 (4.16.3)	If the luminaire does not comply with 4.16.1 and 4.16.2, it shall be so designed that it satisfies the test of 12.6	(see clause 12.6)	N/A
4.6 (4.17)	Drain holes	Not protection against water	
	Clearance at least 5 mm		
4.6 (4.18)	Resistance to corrosion:		N/A
4.6 (4.18.1)	- rust-resistance	Not protection against water	N/A
4.6 (4.18.2)	- season cracking in copper		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.6 (4.18.3)	- corrosion of aluminium		N/A
4.6 (4.19)	Igniters compatible with ballast		N/A
4.6 (4.20)	Rough service vibration..... :	Ordinary service luminaire	N/A
4.6 (4.21)	Protective shield:		N/A
4.6 (4.21.1)	Shield fitted		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		N/A
4.6 (4.22)	Attachments to lamps	No attachments	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}	No such LED light	N/A
	a) Fixed luminaires		N/A
	Distance x m, borderline between RG1 and RG2....		N/A
	Marking and instruction		N/A
	b) Portable and handheld luminaires		N/A
	RG1 exceeded at 200 mm according to IEC/TR 62778		N/A
	Marking		N/A
	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)	Mechanical hazard		P
	No sharp point or edges		P
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)	No such screwless earthing contacts	N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	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
4.6 (4.28)	Fixing of thermal sensing control		N/A
	External to lamp control gear		N/A
	Plug-in or easily replaceable type		N/A
	Adhesive fixing		N/A
	Positioning		N/A
	Temperature ($^{\circ}\text{C}$).....		N/A
	100 cycles between t min and t max		N/A
	Temperature sensing control still in position		N/A
4.6 (4.29)	Luminaires with non-replaceable light source		N/A
	Replacement not possible		N/A
	Live part not accessible		N/A
	Breaking of the luminaire or its parts		N/A
	Removal of parts		N/A
	Compliance with test probe		N/A
	Access to live parts		N/A
4.6 (4.30)	Luminaires with non-user replaceable light source		P
	Protective cover		P
	Fixing means		P
	Cautionary symbol		P
4.6 (4.31)	Insulation between circuits		P
	Transformer or control gears		P
	Insulation between circuits		P
	Circuits insulated from LV supply		N/A
	Insulation provided		N/A
	Controllable luminaires		N/A
	Control terminals		N/A
	Insulation		N/A
	Control gear U-OUT		N/A
4.6 (4.31.1)	SELV circuits	No such circuits	N/A
	Source		N/A
	Insulation between circuits		N/A
	Control gear U-OUT		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	Plug and socket outlet		N/A
4.6 (4.31.2)	FELV circuits	No such circuits	N/A
	Source		N/A
	Insulation between circuits		N/A
	Plug and socket outlet		N/A
4.6 (4.31.3)	Other circuits		P
	CI II		P
	Equipotential bonding		N/A
	All conductive part connected		N/A
	Resistance < 0,5 Ω:		N/A
	Insulation fault: accessible part cause electric shock		N/A
	Master/slave applications		N/A
4.6 (4.32)	Overvoltage protective devices		N/A
	External to lamp control gear, connected to earth		N/A
	Fixed luminaires connected to a protective earth		N/A
4.6.1	The insulation of flexible cables or cords shall be unlikely to be damaged when moving or adjusting the luminaire		P
4.6.2	Wiring shall be fixed by means of wire carriers, clips or similar devices of insulating material		P
4.6.3	6° stability test		P
4.6.4	Candlestick luminaires shall be provided with a switch		N/A
4.6.5	E5,E10 lampholder		N/A

4.7 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
	Working voltage (V).....:	AC 100-240V	—
	Voltage form	Sinusoidal ☒ Non-sinusoidal ☐	—
	PTI	< 600 ☒ $\geq$ 600 ☐	—
	Impulse withstand category (Normal category II) (Category III Annex U)	Category II ☒ Category III ☐	—
	Rated pulse voltage (kV)	2.5KV	—
	(1) Current-carrying parts of different polarity: cr (mm); cl (mm).....:	Cr> 2.5mm (limit 2.5mm) cl> 1.5mm (limit 1.5mm)	P
	(2) Current-carrying parts and accessible parts: cr (mm); cl (mm).....:	cr> 2.5mm (limit 2.5mm) cl> 1.5mm (limit 1.5mm)	P
	(3) Parts becoming live due to breakdown of basic insulation and metal parts: cr (mm); cl (mm).....:		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	(4) Outer surface of cable where it is clamped and metal parts: cr (mm); cl (mm).....:		N/A
	(5) Current-carrying parts of switches and metal parts, after removal of insulation: cr (mm); cl (mm).....:		N/A
	(6) Current-carrying parts and supporting surface: cr (mm); cl (mm).....:		P

4.8 (7)	PROVISION FOR EARTHING		P
4.8 (7.2.1 + 7.2.3)	Accessible metal parts	Class I appliances	P
	Metal parts in contact with supporting surface		P
	Resistance < 0,5 Ω	0.12 Ω	P
	Two self-tapping screws used		N/A
	Thread-forming screws		N/A
	Earth makes contact first		N/A
	Terminal blocks with integrated screwless earthing contacts tested according Annex V		N/A
	Protective earthing of the luminaire not via built-in control gear		N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints etc.		N/A
4.8 (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
4.8 (7.2.5)	Earth terminal integral part of connector socket		N/A
4.8 (7.2.6)	Earth terminal adjacent to mains terminals		P
4.8 (7.2.7)	Electrolytic corrosion of the earth terminal		P
4.8 (7.2.8)	Material of earth terminal		P
	Contact surface bare metal		N/A
4.8 (7.2.10)	Class II luminaire for looping-in		N/A
4.8 (7.2.11)	Earthing core coloured green-yellow		P
	Length of earth conductor		P

4.9 (14)	SCREW TERMINALS		N/A
	Separately approved; component list		N/A
	Part of the luminaire	(see Annex 3)	N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
4.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		N/A
	Separately approved; component list		N/A
	Part of the luminaire	(see Annex 4)	N/A
4.10 (5)	EXTERNAL AND INTERNAL WIRING		P
4.10 (5.2)	Supply connection and external wiring		P
4.10 (5.2.1)	Means of connection..... :	Non-detachable flexible cables	P
4.10 (5.2.2)	Type of cable..... :	H05VV-F	P
	Nominal cross-sectional area (mm ²)..... :		P
4.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
4.10 (5.2.5)	Type Z not connected to screws		N/A
4.10 (5.2.6)	Cable entries:		P
	- suitable for introduction		P
	- adequate degree of protection		P
4.10 (5.2.7)	Cable entries through rigid material have rounded edges		P
4.10 (5.2.8)	Insulating bushings:		P
	- suitably fixed		P
	- material in bushings		P
	- tubes or guards made of insulating material		P
4.10 (5.2.9)	Locking of screwed bushings		N/A
4.10 (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
4.10 (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



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	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
4.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Type Y	P
4.10 (5.2.10.3)	Tests:		P
	- impossible to push cable; unsafe		P
	- pull test: 25 times; pull (N).....:	60N	P
	- torque test: torque (Nm).....:	0.15Nm	P
	- displacement ≤ 2 mm	0.6mm	P
	- no movement of conductors		P
	- no damage of cable or cord		P
4.10 (5.2.11)	External wiring passing into luminaire		P
4.10 (5.2.12)	Looping-in terminals		N/A
4.10 (5.2.13)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A
4.10 (5.2.14)	Mains plug same protection		P
	Class III luminaire plug		N/A
4.10 (5.2.15)	Colour code low voltage		N/A
4.10 (5.2.16)	Appliance inlets (IEC 60320)		N/A
	Appliance couplers of class II type		N/A
4.10 (5.3)	Internal wiring		P
4.10 (5.3.1)	Internal wiring of suitable size and type		P
	Through wiring		P
	- not delivered/ mounting instruction		N/A
	- factory assembled		P
	- socket outlet loaded (A).....:		N/A
	- temperatures.....:		N/A
	Green- yellow for earth only		N/A
4.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring		P
	Cross-sectional area (mm ²).....:		P
	Insulation thickness		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	Extra insulation added where necessary		N/A
4.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal current-limiting device		N/A
	Adequate cross-sectional area and insulation thickness		N/A
4.10 (5.3.1.3)	Double or reinforced insulation for class II		P
4.10 (5.3.1.4)	Conductors without insulation		N/A
4.10 (5.3.1.5)	SELV current-carrying parts		N/A
4.10 (5.3.1.6)	Insulation thickness other than PVC or rubber		N/A
4.10 (5.3.2)	Sharp edges etc.	Inner wire can't touch the sharp edges , rivets and similar components	P
	No moving parts of switches etc.	No moving parts used	N/A
	Joints, raising/lowering devices	No such devices	N/A
	Telescopic tubes etc.	No telescopic tubes etc.	N/A
	No twisting over 360°		P
4.10 (5.3.3)	Insulating bushings:		N/A
	- suitable fixed		N/A
	- material in bushings		N/A
	- material not likely to deteriorate		N/A
	- cables with protective sheath		N/A
4.10 (5.3.4)	Joints and junctions effectively insulated	No joints and junctions	N/A
4.10 (5.3.5)	Strain on internal wiring		N/A
4.10 (5.3.6)	Wire carriers		N/A
4.10 (5.3.7)	Wire ends not tinned		P
	Wire ends tinned: no cold flow		N/A
	1) the requirements whereby at least one part of the cord anchorage shall be fixed or be integral with the luminaire does not apply to Equipped with a tripod work lights of glass or ceramic material		N/A
	2)For portable luminaries with a mass less than 1Kg		N/A
4.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		P
4.11 (8.2.1)	Live parts not accessible	No access of live part in normal use	P



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	Protection in any position		P
	Double-ended tungsten filament lamp		N/A
	Insulation lacquer not reliable	No insulation lacquer and similar materials as protection against electric shock	N/A
	Double-ended high pressure discharge lamp		N/A
4.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position		P
4.11 (8.2.3)	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		P
	Class I luminaire with BC lampholder		N/A
4.11 (8.2.4)	Portable luminaire have protection independent of supporting surface		P
4.11 (8.2.5)	Compliance with the standard test finger or relevant probe		P
4.11 (8.2.6)	Covers reliably secured		P
4.11 (8.2.7)	Discharging of capacitors $\geq 0,5 \mu\text{F}$	No such capacitor	N/A
	Portable plug connected luminaire with capacitor		N/A
	Other plug connected luminaire with capacitor		N/A
	Discharge device on or within capacitor		N/A
	Discharge device mounted separately		N/A

4.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
4.12 (12.3)	Endurance test:		P
	- mounting-position.....:	As in normal use	—
	- test temperature (°C).....:	35°C	—
	- total duration (h).....:	240h	—
	- supply voltage: Un factor; calculated voltage (V)	1.1X240V=264V	—
	- lamp used.....:		—
4.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	- no damage to track system	No track system	N/A
	- marking legible	Marking still legible and shows no curing	P
	- no cracks, deformation etc.		P
4.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
4.12 (12.5)	Thermal test (abnormal operation)		N/A
4.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A
4.12 (12.6.1)	- 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
4.12 (12.6.2)	Temperature sensing control		N/A
	- case of abnormal conditions..... :	No temperature sensing control	—
	- 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
4.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		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		N/A
	Test method 12.7.1.1 or Annex W		—
	Test according to 12.7.1.1:		
	- 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



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	- case of abnormal conditions.....		—
	- measured winding temperature (°C): at 1,1 Un....		—
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un.....		—
	- calculated temperature of fixing point/exposed part (°C).....		—
	Ball-pressure test.....		N/A
4.12 (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.....		N/A
4.12 (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
4.12 (12.7.2)	Luminaire with temperature sensing control		N/A
	- thermal link.....	Yes ☐ No ☐	—
	- manual reset cut-out.....	Yes ☐ No ☐	—
	- auto reset cut-out.....	Yes ☐ No ☐	—
	- case of abnormal conditions.....		—
	- highest measured temperature of fixing point/ exposed part (°C):.....		—
	Ball-pressure test:.....		N/A
4.12 (-)	Test overturned position (overturns < 15°)		N/A

4.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MOISTURE	P
4.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	P
	- classification according to IP.....	IP20
	- mounting position during test.....	As in normal use
	- fixing screws tightened; torque (Nm).....	—
	- tests according to clauses.....	—
	- electric strength test afterwards	P



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	a) no deposit in dust-proof luminaire		N/A
	b) no talcum in dust-tight luminaire		N/A
	c) no trace of water on current-carrying parts or where it could become a hazard		N/A
	d) i) For luminaires without drain holes – no water entry		N/A
	d) ii) For luminaires with drain holes – no hazardous water entry		N/A
	e) no water in watertight luminaire		N/A
	f) no contact with live parts (IP 2X)	IPX0	P
	f) no entry into enclosure (IP 3X and IP 4X)		N/A
4.13 (9.3)	Humidity test 48 h	25°C; 93%R.H.,48H	P

4.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRENGTH		P
4.14 (10.2.1)	Insulation resistance test		P
	Insulation resistance (MΩ):		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
	Other than SELV:		P
	- between live parts of different polarity..... :	>100 MΩ	P
	- between live parts and mounting surface..... :	>100 MΩ	P
	- between live parts and enclosure..... :	>100 MΩ	P
	- between live parts of different polarity through action of a switch..... :		N/A
4.14 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V):		P
	SELV:		N/A
	- between current-carrying parts of different polarity..... :		N/A
	- between current-carrying parts and mounting surface..... :		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
	- between current-carrying parts and metal parts of the luminaire.....:		N/A
	Other than SELV:		P
	- between live parts of different polarity.....:	1480V	P
	- between live parts and mounting surface.....:	3710V	P
	- between live parts and enclosure.....:	3710V	P
	- between live parts of different polarity through action of a switch.....:		N/A
4.14 (10.3.1)	Leakage current (mA).....:	0.027mA	P

4.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
4.15 (13.2.1)	Ball-pressure test:		P
	- part tested; temperature (°C).....:	Lampholder: 125°C, 1.2mm	P
	- part tested; temperature (°C).....:	Terminal: 125°C, 0.8mm	P
4.15 (13.3.1)	Needle flame test (10 s):		P
	- part tested.....:	Lampholder: Flame duration: 9s, no burning drop	P
	- part tested.....:		N/A
4.15 (13.3.2)	Glow wire test (650°C):		P
	- part tested.....:	Lampholder: no flame, no drop.	P
	- part tested.....:	Terminal: no flame, no drop.	P
4.15 (13.4.1)	Tracking test: part tested.....:		N/A

	COMMON MODIFICATIONS		N/A
(5.2.1)	For luminaires connected by tails, information about terminal block		N/A
(5.2.2)	Cables equal to HD 21 S2 or HD 22 S2		N/A
(5.2.15)	Colour code low voltage		N/A

ZB	ANNEXZB, SPECIAL NATIONAL CONDITIONS		N/A
(2.2)	Class0 not accepted		N/A
(3.3)	DK: power supply cord with label		N/A
	IT: warning label on Class 0 luminaire		N/A
(4.5.1)	DK: socket-outlets		N/A
(4.5.1)	FR: socket-outlets		N/A
(5.2.1)	DK, FI, SE, GB: type of plug		N/A



IEC 60598-1&IEC 60598-2-4			
Cl.	Requirement – Test	Result	Verdict
ZC	ANNEXZC, NATIONAL DEVIATIONS		N/A
(13.3)	DK: Needle flame test or glow-wire test 750°C for luminaires in access routes		N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation		N/A
(13.3.2)	FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public and workers		N/A



ANNEX1: Critical components information					P
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
EU plug	Dongguan shijie zhongbo hardware and electronic products factory	ZDAZ4PD1- EU	250V, 1.2A	EN 50075: 1990	Tested with appliance
AC inlet	Yueqing Yanhui Electronic Co., Ltd.	DB-14	AC 250 V, 10 A	IEC/ EN 60320-1	VDE 40032008
Power cord	Shenzhen Baohing Electric Wire& Cable Manufacture Co.,Ltd.	H05VV-F	3*0.75mm ²	DIN EN 50525- 2-11	VDE 103727
PCB	Interchangeable	Interchangeable	V-0, 130℃	UL796	UL
Fuse(F1)	XC Electronics (Shenzhen) Co., Ltd	3T-Serie (s)	10A 250V	EN 60127-1; EN 60127-2	VDE 40019614
Internal wire	SHENZHEN JINRUIHUA WIRE & CABLE CO LTD	1672	105℃, 22AWG 300V	UL 758	UL E316944
Switch	Pronic Electronics(Shenz hen)Co., Ltd	BR	125V,10A ; 250V, 5A	EN 61058- 1:2008-09	VDE 40027238
DC fan	SHENZHEN FENGWANG ELECTRONIC CO LTD	5020(Z)12(Y)	12Vdc, 0.16A	cURus	E485588
LED driver	Dongguan GuanQing Electronics	AED36- 0505000WE0 4	Input:100V- 240V~, 50/60Hz, 1.5A Output:5V---5A , 25W	EN61347-2- 13:2014+A1:20 17	IEC
LED module PCB	Xiamen Topsun Electronic Technology Co.,Ltd.	TS-004	130℃, V-0	UL 796	UL E252242*



	ANNEX2: temperature measurements, thermal tests of Section 12		P				
	Type reference..... :	LED THERAPY LIGHT	—				
	Lamp used..... :	Normal user	—				
	Lamp control gear used..... :		—				
	Mounting position of luminaire..... :	As in normal use	—				
	Supply wattage (W)..... :	625.3	—				
	Supply current (A)..... :	5.93	—				
	Calculated power factor..... :	0.91	—				
	Table: measured temperatures corrected for ta = 25 °C:						
	- abnormal operating mode..... :	No abnormal mode	—				
	- test 1: rated voltage..... :	--	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage..... :	1.06X240V=254.4V	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage..... :	--	—				
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage..... :	--	—				
temperature (°C) of part		clause 12.4 - normal		clause 12.5 - abnormal			
		test 1	test 2	test 3	limits	test 4	limit
Power line		--	30.2	--	80	--	--
PCB near U1		--	58.1	--	130	--	--
PCB near LED		--	48.2	--	130	--	--
Internet wire		--	35.3	--	105	--	--
Fan body		--	40.2	--	Ref.	--	--
Enclosure inside		--	36.8	--	Ref.	--	--
Enclosure outside		--	29.7	--	60	--	--
Switch body		--	31.9	--	77	--	--
Ambient		--	25.0	--	--	--	--



	ANNEX 3: screw terminals (part of the luminaire)		N/A
(14)	SCREW TERMINALS		N/A
(14.2)	Type of terminal..... :	No screwless terminals	—
	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)..... :		N/A
(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)..:		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

	ANNEX 4: SCREWLESS TERMINALS (PART OF THE LUMINAIRE)		N/A
(15)	SCREWLESS TERMINALS		N/A
(15.2)	Type of terminal..... :	No screwless terminals	—
	Rated current (A)..... :		—
(15.3.1)	Material		N/A
(15.3.2)	Clamping		N/A
(15.3.3)	Stop		N/A
(15.3.4)	Unprepared conductors		N/A
(15.3.5)	Pressure on insulating material		N/A
(15.3.6)	Clear connection method		N/A
(15.3.7)	Clamping independently		N/A
(15.3.8)	Fixed in position		N/A
(15.3.10)	Conductor size		N/A
	Type of conductor		N/A



(15.5.1)	Terminals internal wiring		N/A
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples)		N/A
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples)		N/A
	Insertion force not exceeding 50 N		N/A
(15.5.2)	Permanent connections: pull-off test (20 N)		N/A
(15.6)	Electrical tests		N/A
	Voltage drop (mV) after 1 h (4 samples).....:		N/A
	Voltage drop of two inseparable joints		N/A
	Number of cycles.....:		—
	Voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		N/A
	Voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		N/A
	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples).....:		N/A
	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples).....:		N/A
(15.7)	Terminals external wiring		N/A
	Terminal size and rating		N/A
(15.8.1)	Pull test spring-type terminals (4 samples); pull (N)		N/A
	Pull test pin or tab terminals (4 samples); pull (N)		N/A
(15.9)	Contact resistance test		N/A
	Voltage drop (mV) after 1 h		N/A



terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop of two inseparable joints									
	Voltage drop after 10th alt. 25th cycle									
	Max. allowed voltage drop (mV)..... :					—				
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Voltage drop after 50th alt. 100th cycle									
	Max. allowed voltage drop (mV)..... :					—				
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 10th alt. 25th cycle									
	Max. allowed voltage drop (mV)..... :					—				
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										
	Continued ageing: voltage drop after 50th alt. 100th cycle									
	Max. allowed voltage drop (mV)..... :					—				
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)										



Attachment I			
IEC60598_2_4 - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
ATTACHMENT TO TEST REPORT IEC 60598-2-4 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES Luminaires Part 2: Particular requirements: Section Four – Portable general purpose luminaires			
Differences according	: EN 60598-1:2015+A1:2018 EN 60598-2-4:2018		
Annex Form No.	: EU_GD_IEC_60598_2_4D		
Annex Form Originator:	UL(US)		
Master Annex Form	: 2017-02		
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	CENELEC COMMON MODIFICATIONS (EN)		P
4.5 (3)	MARKING		P
4.5 (3.3.101)	Adequate warning on the package		P
4.6 (4)	CONSTRUCTION		P
4.6 (4.11.6)	Electro-mechanical contact systems		N/A
4.10 (5)	EXTERNAL AND INTERNAL WIRING		N/A
4.10 (5.2.1)	Connecting leads		N/A
	- without a means for connection to the supply		N/A
	- terminal block specified		N/A
	- relevant information provided		N/A
	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1		N/A
4.10 (5.2.2)	Cables equal to HD21 S2 or HD22 S2		N/A
4.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
4.12 (12.4.2c)	Thermal test (normal operation)		P
ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		P
(3.3)	DK: power supply cord with label		N/A
	IT: warning label on Class 0 luminaire		N/A
(4.5.1)	DK: socket-outlets		N/A
(5.2.1)	CY, DK, FI, SE, GB: type of plug		P
ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N/A
(4 & 5)	FR: Shuttered socket-outlets 10/16A		N/A



Attachment I			
IEC60598_2_4 - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
(13.3)	FR: Glow-wire test 850°C alt. 750°C for luminaires in premises open to public or 960°C for luminaires in emergency exits		N/A
(13.3)	GB: Requirements according to United Kingdom Building Regulation		N/A
Annexe O	Batteries operated luminaires		P
O.3	MARKING AND INSTRUCTIONS		P
O.3.2	The battery compartment of appliances incorporating batteries that are intended to be replaced by the user shall be marked with the battery voltage and the polarity of the terminals.		P
	If more than one battery is used, the battery compartment shall be marked with the shape of the batteries in proportional size, together with their nominal voltage and polarity.		P
O.3.2	In the instruction leaflet supplied with the luminaire, the manufacturer shall specify if the batteries are non-replaceable.		P
	Dans les instructions fournies avec le luminaire, le fabricant doit spécifier si les batteries sont non remplaçables.		N/A
O.4	CONSTRUCTION		P
	For non ordinary fixed battery operated luminaires to be recharged by external charger, the IP degree shall be maintained even during the charge operation.		P
	For other luminaires the instructions shall state that the charging operation shall be done indoor if the IP degree cannot be maintained during the charge operation.		P
	For luminaire with built in charge operation, the construction shall be such that replacement of batteries by non rechargeable batteries is not possible.		P
	Hand-held battery operated luminaires are subjected to drop test (1 m, 3 times on a concrete floor)		N/A
O.8	PROTECTION AGAINST ELECTRIC SHOCK		P
	Luminaires shall be so constructed that their live parts are not accessible when the luminaire is opened as necessary for replacing batteries, even if the operation cannot be achieved by hand. Basic insulated parts shall not be used on the surface of the battery compartment without appropriate protection against accidental contact, if the luminaire can be operated without batteries.		P
O.12	ENDURANCE TEST AND THERMAL TEST		P
O.12.1	Endurance test		P
	The following requirements apply only to batteries operated luminaires having a measured power during normal operation greater than 15 VA.		N/A



Attachment I			
IEC60598_2_4 - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	For luminaires with built-in charge operation batteries the endurance test shall be as specified in 12.3.1 of section 12 of IEC 60598-1 except that the requirements of items c) and d) shall be replaced by the following:		P
	The luminaire shall be tested in the enclosure for a duration made up of 10 successive cycles of 20 h, each cycle starting from a full charge of the battery. The battery shall be charged between two successive cycles during the necessary time to reach full charge. Unless not allowed by the construction of the luminaire, the charge is performed in the enclosure.		P
O.12.4	Thermal test		P
	The temperature rise of surfaces accessible to test probe B of IEC 61032, including those of replaceable batteries, shall not exceed 45 K.		P
O.12.5	Abnormal operation		P
	Luminaires with built-in charge operation batteries shall be subjected to an additional thermal test according to 12.5 of section 12 of IEC 60598-1 except that the abnormal service condition shall be the replacement of the internal batteries with a short-circuit link across the battery charger output. The luminaire shall comply with 12.5.2 of IEC 60598-1, shall not become unsafe, and after removal of the short-circuit link, reconnection of the batteries and replacement of fuse-links where necessary, shall function normally.		P
	Luminaires with built-in charge operation done by the mains supply are supplied at rated voltage for 168 h, the battery being continually charged during this period.		P
	Luminaires having batteries that are replaceable by the user are supplied at rated voltage and operated under normal operation but with the battery removed or in any position allowed by the construction.		P
	During the tests, the luminaire shall comply with 12.5.2 of IEC 60598-1 and shall not become unsafe. The temperature rise of surfaces accessible to test probe B of IEC 61032, including those of replaceable batteries, shall not exceed 45 K. The temperature rise of non accessible batteries shall not exceed 60 K.		P



Attachment II : Photo-documentation

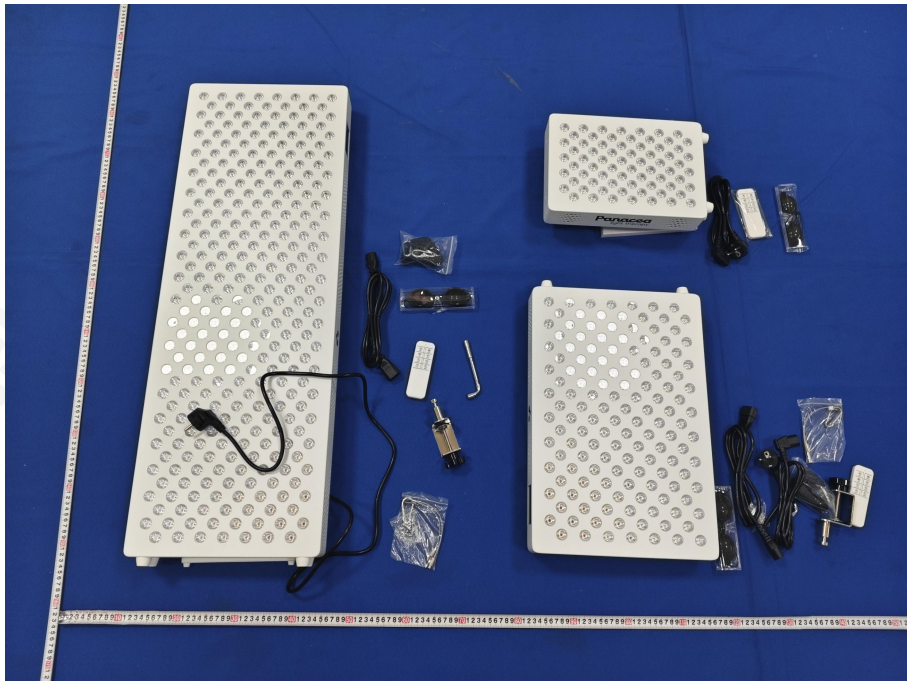


Photo 1

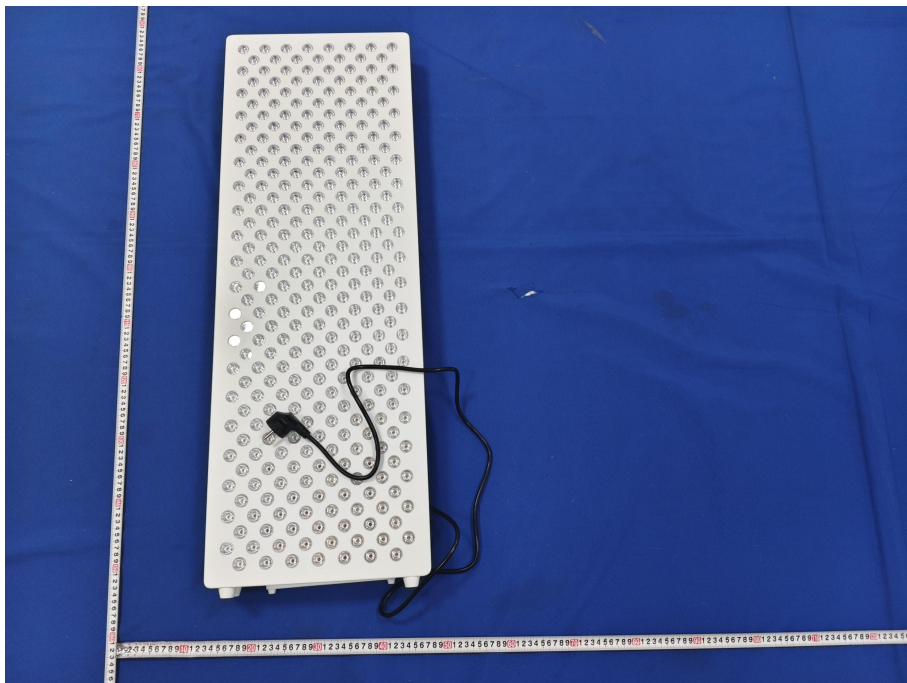


Photo 2:

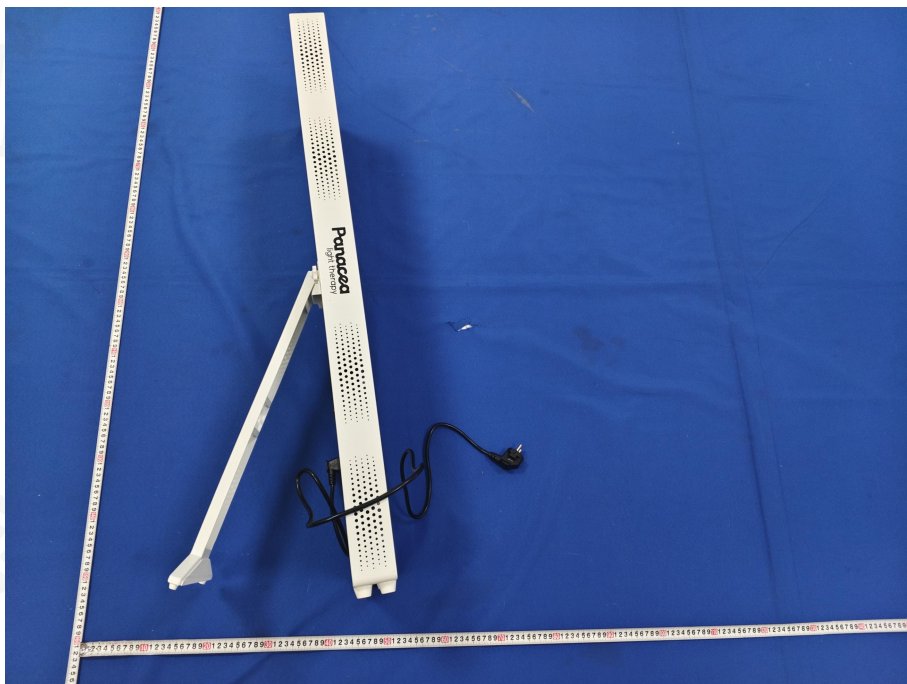


Photo 3

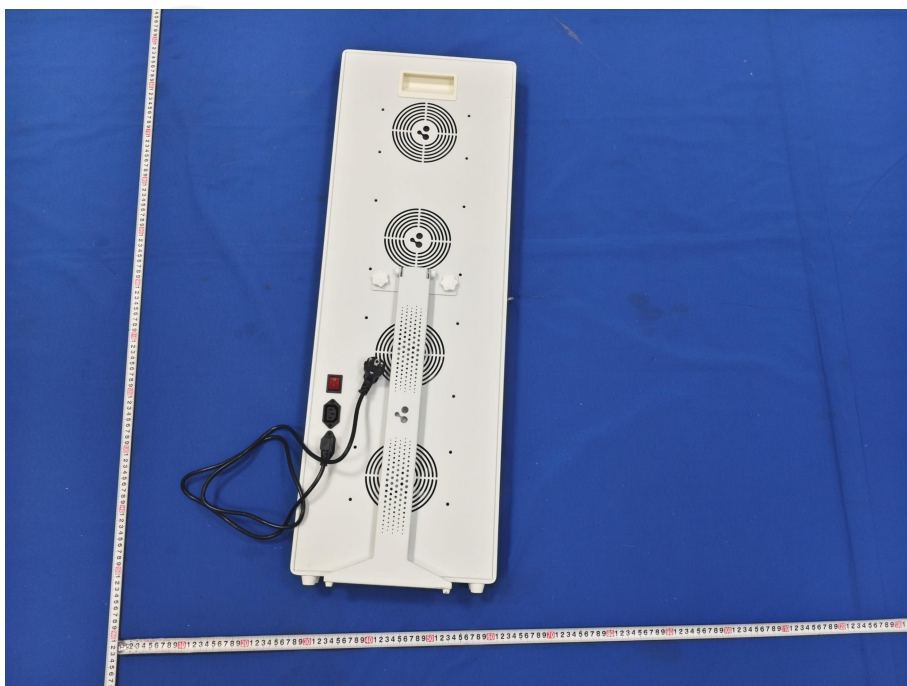


Photo 4

***** END OF REPORT *****