

Report No.: 18220WC30083904S

Test Report

Applicant : Shenzhen Qianyan Technology LTD

No. 3301, Block C, Section 1, Chuangzhi

Address Yuncheng Building, Liuxian Avenue, Xili

Community, Xili Street, Nanshan District,

Shenzhen

Product Name : Govee Glide Hexagon Light Panels Ultra

Compliance Letting of the Compliance Letting

Date : Jul. 06, 2023





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TEST REPORT IEC 60598-2-4

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

Report Number.....: 18220WC30083904S

Date of issue....: Jul. 06, 2023

Total number of pages: 62 pages

Name of Testing Laboratory

preparing the Report: Shenzhen Anbotek Compliance Laboratory Limited

Applicant's name Shenzhen Qianyan Technology LTD

Address.....: No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building,

Liuxian Avenue, Xili Community, Xili Street, Nanshan District,

Shenzhen

Test specification:

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

Test procedure: Type test

Non-standard test method: N/A

Test Report Form No.: IEC 60598_2_41

Test Report Form(s) Originator: Type test

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





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Test item description	.: Govee Glide Hexagon Light Panels Ultra
Trade Mark	Govee
Manufacturer	.: Shenzhen Qianyan Technology LTD
otek Anbotek Anbotek An	No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen
Model/Type reference	.: H606A
Ratings	.: 36VDC, 2A

\boxtimes	Testing Laboratory:	Shenzhen Anbotek Compliance Laboratory Limited
Tes	sting location/ address:	Location 1: 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102
		Location 2: Zone B, 1/F., Building 2, Hengchangrong High Tech Industrial Park, Huangtian, Hangcheng Street, Bao'a District, Shenzhen, Guangdong, China. 518128
Tes	sted by (name, function, signature):	Otto Guo Tested Handler
App	proved by (name, function, signature):	Jeff Zhu Designated Reviewer



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

IEC 62031(ANNEX 5)

Attachment No. 1

- test report for TEST REPORT IEC TR 62778:2014

Attachment No. 2

- test report for EN 62493:2015

Attachment No. 3

-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

- EN 62493:2015

Testing location:

Location 1: 1/F, Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102

Location 2: Zone B, 1/F., Building 2, Hengchangrong High-Tech Industrial Park, Huangtian, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518128

IEC 60598-2-4 Clause 4.6 (4.24.2) were tested at location 2, others were tested at location 1.

Summary of compliance with National Differences (List of countries addressed):

N/A





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Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Govee Glide Hexagon Light Panels Ultra

Model No.: H606A Rating: 36VDC, 2A



ta:40 °C







Shenzhen Qianyan Technology LTD

No. 3301, Block C, Section 1, Chuangzhi Yuncheng Building, Liuxian Avenue, Xili Community, Xili Street, Nanshan District, Shenzhen

Importer: xxxxxx Address: xxxxxx

(stick on enclosure)



Caution, risk of electric shock





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Test item particulars:	
Classification of installation and use::	Portable light
Supply Connection:	Input terminal
Protection Class::	
Degree of protection::	IP20
ta:	40°C
Possible test case verdicts:	anborek Anbore
- 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:	Jose William Ville
Date of receipt of test item	May 11, 2023
Date (s) of performance of tests	May 11, 2023 to May 23, 2023
	The work All Felt
General remarks:	
General remarks.	hotel And tek anbou
"(See Enclosure #)" refers to additional information a	
All hotel And the	
"(See Enclosure #)" refers to additional information a	he report.
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An	IEC 60598-2-4	Am Potek Aupotes Au	otek.
Clause	Requirement + Test	Result - Remark	Verdict
4.4 (0)	GENERAL TEST REQUIREMENTS	21-	burn.
4.4 (0.3)	More sections applicable:	Yes ☐ No ☒ Section/s:	_
4.4 (0.5)	Components	Anbotek Anbo tek	
4.4 (0.7)	Information for luminaire design in light sources s	tandards	_
4.4 (0.7.2)	Light source safety standard:	IEC 60598-1	_
rek on	Luminaire design in the light source safety standard	stek anbotek Anbote	N/A
4.5 (2)	CLASSIFICATION OF LUMINAIRES	1-O* 05* 542	r bur
4.5 (2.2)	Type of protection:	Class III	Р
4.5 (2.3)	Degree of protection:	IP20	nboren
4.5 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
k Aupon	Luminaire for rough service:	Yes □ No ⊠	_
4.5.1 (-)	Ordinary luminaire:	Yes ⊠ No □	_
4.5.2 (-)	Portable luminaire for outdoor use:	Yes □ No ⊠	_
hotek	Classified IPX4 or higher	Anboiek Anboiek Anbo	N/A
4.5.3 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	_
4.6 (3)	MARKING		Arbote.
4.6 (3.2)	Mandatory markings	potek Anbo, K hotek	Panbot
abotek P	Position of the marking	shortek Anbores And	ek P an
hotek	Format of symbols/text	botek Anbotek Anbo	ate/P
4.6 (3.3)	Additional information	An hotek Anboten An	P
Ann	Language of instructions	English	Anbe P *ek
4.6 (3.3.1)	Combination luminaires	And Lotek Anbotek	MP
4.6 (3.3.2)	Nominal frequency in Hz	boter And otek Anbotek	N/A
4.6 (3.3.3)	Operating temperature	Anbotek Anbe	N/A
4.6 (3.3.5)	Wiring diagram	Anbotek Anbo tek	N/A
4.6 (3.3.6)	Special conditions	Anbotek Anbot At	N/A
4.6 (3.3.7)	Metal halide lamp luminaire – warning	ek anbotek Anbot	N/A
4.6 (3.3.8)	Limitation for semi-luminaires	tek abotek Anbore	N/A
4.6 (3.3.9)	Power factor and supply current	o. A. społek Aupole.	N/A
4.6 (3.3.10)	Suitability for use indoors	Anbor Anbore	P Anto







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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Ant	ak Albotek Anbo	Art Stek Mibotek	Aupo
4.6 (3.3.11)	Luminaires with remote control	otek Anbo tek spotek	N/A
4.6 (3.3.12)	Clip-mounted luminaire – warning	abotek Anbor Air	N/A
4.6 (3.3.13)	Specifications of protective shields	potek Aupote, Aur	N/A
4.6 (3.3.14)	Symbol for nature of supply	DC Antorek Antorek	P
4.6 (3.3.15)	Rated current of socket outlet	Ann Lotek Anbotek	N/A
4.6 (3.3.16)	Rough service luminaire	Anu stek anbotek	N/A
4.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	hotek Anbotek Anbotek	N/A
4.6 (3.3.18)	Non-ordinary luminaires with PVC cable	no otek Anbotek Anbo	N/A
4.6 (3.3.19)	Protective conductor current in instructions, if applicable	Ambotek Anbotek Anb	N/A
4.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	Anbotek Anbotek	N/A
4.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	non-user replaceable light	lb _{po}
noiek p	Cautionary symbol	hotek Anbote And	ek P
4.6 (3.3.22)	Controllable luminaires, classification of insulation provided	Anbotek Anbotek An	N/A
4.6 (3.3.23)	Luminaire without controlgear provided with necessary information for selection of appropriate component	ek Anbotek Anbotek	N/A
4.6 (3.3.24)	If not supplied with terminal block, information on the packaging	ootek Anbotek Anbotek	N/A
4.6 (3.3.24)	If not supplied with terminal block, information on the packaging	Anbotek Anbotek Anbo	N/A
4.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided	Anbotek Anbotek	N/A
4.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided	otek Anbotek Anbotek	N/A
4.6 (3.4)	Test with water	15s And And And	Р
rek	Test with hexane	15s	P
AUDO	Legible after test	And tek abotek An	P
Anbor	Label attached	Aupo, by.	Aupologe P
4.6.1 (-)	Luminaire not suitable for outdoor application	k Aupore Aur	N/A
k Anbot	Required symbol	otek Anbotel Anb	N/A
tek m	Information in the instructions	stek Anbotek Anbo	N/A







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Clause	Requirement + Test	Result - Remark	Verdict
Oladoc	Troquicinone i Tost	result Remark	Verdiot
4.6.2 (-)	Outdoor use, socket outlet incorporated in the luminaire	otek Anborek Anborek	N/A
20,2 Mr.	Maximum power rating marked	rupo, yk Potsk Vupote	N/A
Anbore	Position of the marking	Anbor Ant	N/A
4.7 (4)	CONSTRUCTION	,	upotek
4.7 (4.2)	Components replaceable without difficulty	Anbore An otek	ant Prok
4.7 (4.3)	Wireways smooth and free from sharp edges	otek Anbotes Anbo	Ploot
4.7 (4.4)	Lampholders	sotek Anbotek Anbo	N/A
4.7 (4.4.1)	Integral lampholder	ne stek Anborek Anbor	N/A
4.7 (4.4.2)	Wiring connection	Anbotek Anb	N/A
4.7 (4.4.3)	Lampholder for end-to-end mounting	Anto. P. Spotek P	N/A
4.7 (4.4.4)	Positioning	Anboy Lak abotek	N/A
. Aupore	- pressure test (N):	tek Aupore And Polek	_
itek Anb	After test the lampholder comply with relevant standard sheets and show no damage	potek Vupotek Vupotek	N/A
Anbotek Anbotek	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	Anbotek Anbotek Anbo	N/A
Ann	- bending test (N):	And otek anbotek	_
rek Anbo	After test the lampholder have not moved from its position and show no permanent deformation	notek Anbotek Anbotek	N/A
4.7 (4.4.5)	Peak pulse voltage	hotek Anbotel Anbo	N/A
4.7 (4.4.6)	Centre contact	And Anbotek Anbo	N/A
4.7 (4.4.7)	Parts in rough service luminaires resistant to tracking	Andrew Andrew An	N/A
4.7 (4.4.8)	Lamp connectors	And tek anbotek	N/A
4.7 (4.4.9)	Caps and bases correctly used	ak Anbo. tek upotek	N/A
4.7 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way	otek Anbotek Anbotek	N/A
4.7 (4.5)	Starter holders	Anbotek Anbotek	N/A
Aupo.	Starter holder in luminaires other than class II	Anbo And Abotek And	N/A
Aupor	Starter holder class II construction	Pupor Bri	N/A
4.7 (4.6)	Terminal blocks	ak Aupon Aun Motek	N/A
k Anbo	Tails And	otek Aupon Augustak	N/A
atek no	Unsecured blocks	otek Vipoley William	N/A







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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Ans	ek anbotek Anbo	Ans stek aubotek	Aupo
4.7 (4.7)	Terminals and supply connections	otek Aupo, K Potek	N/A
4.7 (4.7.1)	Contact to metal parts	abotek Anbote And	N/A
4.7 (4.7.2)	Test 8 mm live conductor	potek Anbore, And	N/A
wołek	Test 8 mm earth conductor	Antorek Antorek Ant	N/A
4.7 (4.7.3)	Terminals for supply conductors	Ant Anbotek	N/A
4.7 (4.7.3.1)	Welded method and material	And otek Anbotek	N/A
Anbo	- stranded or solid conductor	Her Ando stek anbotek	N/A
otek but	- spot welding	upotek Aupo ek apote	N/A
nbotek	- welding between wires	Anbotek Anbo. All b	N/A
anbotek	- Type Z attachment	anbotek Anbota An	N/A
abotek	- mechanical test according to 15.6.2	abotek Anbote A	N/A
, bore	- electrical test according to 15.6.3	ek botek Anbote	N/A
r bu	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	k hotek Anboten	N/A
4.7 (4.7.4)	Terminals other than supply connection	loose Augustek Augustek	N/A
4.7 (4.7.5)	Heat-resistant wiring/sleeves	Anbores And otek Anbo	N/A
4.7 (4.7.6)	Multi-pole plug	Anboren Anb	N/A
Anbotek	- test at 30 N	Anbotek Anbo	N/A
4.7 (4.8)	Switches	tek Anbotek Anbo	N/A
ek nbc	- adequate rating	stek anbotek Anbot	N/A
rek	- adequate fixing	be tek abotek Anbore	N/A
60. P	- polarized supply	Anbo Anbo	N/A
Anborek	- compliance with IEC 61058-1 for electronic switches	Anbotek Anbotek An	N/A
4.7 (4.9)	Insulating lining and sleeves	ek shotek Anbore	N/A
4.7 (4.9.1)	Retainment	lek abotek Anbote	N/A
Y. Bur	Method of fixing:	or Armotek Anbotes	N/A
4.7 (4.9.2)	Insulated linings and sleeves:	Anbor Anbor	N/A
Anborek	Resistant to a temperature > 20 °C to the wire temperature or	Anbotek Anbotek An	N/A
hotek	a) & c) Insulation resistance and electric strength	k abotek Anbore	N/A
k hos	b) Ageing test. Temperature (°C)	ok hotek Anbotes	N/A
4.7 (4.10)	Double or reinforced insulation	on the apology	N/A







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botek	IEC 60598-2-4	poten And	worek.
Clause	Requirement + Test	Result - Remark	Verdict
h 170,	k albayer Aug tek abayek Yupo,	Ar Lotek Alboter	VUD
4.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	otek Anbotek Anbotek	N/A
o. W.	Safe installation fixed luminaires	inpo. Pk apolek Wupole	N/A
Anbor	Capacitors and switches	Anbor An horek Ant	N/A
	Interference suppression capacitors according to IEC 60384-14	Anborek Anborek	N/A
4.7 (4.10.2)	Assembly gaps:	lek Abotek Anbote	N/A
V. V.	- not coincidental	ok botek Anboten	N/A
Olo VI	- no straight access with test probe	upote Aurotek Aupote	N/A
4.7 (4.10.3)	Retainment of insulation:	Anbore And	N/A
Anborer	- fixed	Anbotes And Otek	N/A
Anbotek	- unable to be replaced; luminaire inoperative	Anbotek Anbo	N/A
Anboie	- sleeves retained in position	rek Anbotek Anbo	N/A
tek no	- lining in lampholder	otek Anbotek Anbo	N/A
4.7 (4.10.4)	Protective impedance device	upo stek upotek Aupote	N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Anbotek Anbotek Anbo	N/A
Anbo	Y1 or Y2 capacitors comply with IEC 60384-14	And stek anbotek	N/A
Aupa	Resistors comply with test (a) in 14.1 of IEC 60065	ek Anbotek	N/A
4.7 (4.11)	Electrical connections and current-carrying parts	botek Anbo tek abotek	Panh
4.7 (4.11.1)	Contact pressure	Anborek Anbo. Ak abo	e ^N P ₁
4.7 (4.11.2)	Screws:	Anbotek Anbott All	N/A
aborek	- self-tapping screws	abotek Anbore A	N/A
h. botek	- thread-cutting screws	k abotek Anbote	N/A
4.7 (4.11.3)	Screw locking:	ok hotek Anbotes	N/A
Y VIII	- spring washer	Jose Anborek Anborek	N/A
DOJE. VI	- rivets	Anbore And Anbor	N/A
4.7 (4.11.4)	Material of current-carrying parts	Anborer And otek and	otek P
4.7 (4.11.5)	No contact to wood or mounting surface	Aupoter Aupo	nbo*P*
4.7 (4.14.7)	No contact to wood or mounting surface	k Anbotek Anbo	N/A
4.7 (4.14.7)	Electro-mechanical contact systems	otek Anbotek Anbote	N/A
4.7 (4.12)	Screws and connections (mechanical) and glands	tek anbotek Anbote	Р
4.7 (4.12.1)	Screws not made of soft metal	nbo nbore	Р







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potek	IEC 60598-2-4	potek Anbor Ar.	rek
Clause	Requirement + Test	Result - Remark	Verdict
Arra O'	ok Amotek Anbo	An Anhotek	Pupo
Anbe	Screws of insulating material	otek Anbotek	N/A
otek An	Torque test: torque (Nm); part:	Fixed PCB screw 0.4Nm	ε P _{μ0}
hotek	Torque test: torque (Nm); part:	Anbotek Anbote An	N/A
abotek.	Torque test: torque (Nm); part:	Anbores And	N/A
4.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal	Ali Anbotek	N/A
4.7 (4.12.4)	Locked connections:	Anu otek Anbotek	N/A
Anbo	- fixed arms; torque (Nm):	ster Ande stek subotek	N/A
otek Anl	- lampholder; torque (Nm):	hbotek Anbu tek shotel	N/A
abotek	- push-button switches; torque 0,8 Nm:	anbotek Anbot At	N/A
4.7 (4.12.5)	Screwed glands; force (Nm):	abotek Anbote Ant	N/A
4.7 (4.13)	Mechanical strength	k hotek Anbores A	N/A
4.7 (4.13.1)	Impact tests:	k hotek Anbotek	Anto P
Puga	- fragile parts; energy (Nm):	Diffuser; 0.35Nm	P
Jok Pup	- other parts; energy (Nm)	Plastic enclosure; 0.50Nm	PAnto
botel P	1) live parts	Anborek Anbo. Ar abo	P I
Anbotek	2) linings	Anborek Anbore An	note ^l P
botek	3) protection	nbotek Anbote Ar	P≥ ^k
Air.	4) covers	ek abotek Anbote	Potel
4.7 (4.13.3)	Straight test finger	ak hotek Anbotek	P
4.7 (4.13.4)	Rough service luminaires	pote, Aur Colek Vupotek	N/A
poter P	- IP54 or higher	Anboren Anbo	N/A
Anboiek	a) fixed	Aupotok Aupo	N/A
anbotak	b) hand-held	Aupotek Aupo, Mr.	N/A
anbotek	c) delivered with a stand	ok Anborek Anbore	N/A
ek Aupo	d) for temporary installations and suitable for mounting on a stand	potek Anbotek Anbotek	N/A
4.7 (4.13.6)	Tumbling barrel	Impolar Ambo	N/A
4.7 (4.14)	Suspensions, fixings and means of adjusting	Anborek Anbo. A.	o ^{tek} P
4.7 (4.14.1)	Mechanical load:	Vupojek Vupoje Viv	-1001P
abotek	A) four times the weight	3.23kg*4=12.92 kg	Biek
K Pi,	B) torque 2,5 Nm	Lek shotek Anbotek	Puol
Y VIII	C) bracket arm; bending moment (Nm):	or All sotek Anbotek	N/A
ote, Vu	D) load track-mounted luminaires	Wholes Was Pose	N/A







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botek	IEC 60598-2-4	shorek Anbo. Ar.	- Nek
Clause	Requirement + Test	Result - Remark	Verdic
h 50,	ok Aupotek Aupon	An Anhorsk	Pupp.
sek Anbo	E) clip-mounted luminaires, glass-shelve. Thickness (mm):	otek Anbotek Anbotek	_
	Metal rod. diameter (mm):	upo. Ak potek Aupote	N/A
unbotek .	Fixed luminaire or independent control gear without fixing devices	Anbotek Anbotek Anb	N/A
4.7 (4.14.2)	Load to flexible cables	k shotek Anbore	N/A
r hou	Mass (kg):	ok hotek Anbotes	_
Vr. Prince	Stress in conductors (N/mm²):	K hotek Anbotek	N/A
No. VIII	Mass (kg) of semi-luminaire:	upoter Am otek Anbote	N/A
nbotes	Bending moment (Nm) of semi-luminaire:	Anbores Anbo	N/A
4.7 (4.14.3)	Adjusting devices:	Anbotes Anbo tek	N/A
anbotek	- flexing test; number of cycles:	Aupotek Aupo, tek	N/A
nboise	- strands broken:	lek Anbotek Anbor	N/A
ek ab	- electric strength test afterwards	tek upotek Anbore	N/A
4.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	Anbotek Anbotek Anbote	N/A
4.7 (4.14.5)	Guide pulleys	Anbotek Anbo	N/A
4.7 (4.14.6)	Strain on socket-outlets	upotek Aupon ek	N/A
4.7 (4.15)	Flammable materials	rek abotek Anbot	Pot
ek sp	- glow-wire test 650°C	See Test Table 4.15 (13.3.2)	P
rek b	- spacing ≥30 mm	oo ak abotek Anbores	N/A
DOL P	- screen withstanding test of 13.3.1	Anbore Antorek Anbor	N/A
Anbors	- screen dimensions	Anbore An	N/A
Aupole	- no fiercely burning material	Anbores Ann Otek	anbo P
Aupoten	- thermal protection	k Anbores Anbo	N/A
K Anbo	- electronic circuits exempted	lotek Anbotes Ances	N/A
4.7 (4.15.2)	Luminaires made of thermoplastic material with lamp of	control gear	N/A
. orek	a) construction	Ann Anbotek Anbo	N/A
Augustak	b) temperature sensing control	And otek anbotek Ant	N/A
Aupo.	c) surface temperature	Anbu tek abotek	N/A
1.7 (4.16)	Luminaires for mounting on normally flammable so	urfaces	AN POTO
k Anbo	No lamp control gear:	(compliance with Section 12)	Rob
4.7 (4.16.1)	Lamp control gear spacing:	Motek Ambores Amb	P.







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polek	IEC 60598-2-4	aboren And	-otek
Clause	Requirement + Test	Result - Remark	Verdict
Y 700	ek Anbores Anbor	Ar botak Anboten	PULD O
-K Dun	- spacing 35 mm	ore Ann Hotek Anbotek	Parbo
oter An	- spacing 10 mm	Anboren Ann	N/A
4.7 (4.16.2)	Thermal protection:	Anbotek Anbo	otek P
Anbotek	- in lamp control gear	anbotek Anbo	abotek
Anbotek	- external	anbotek Anbor	N/A
K 700%	- fixed position	rek abotek Aupote	N/A
bi.	- temperature marked lamp control gear	or Arr botek Anboten	P/oc
4.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
4.7 (4.17)	Drain holes	Anboren Anb	N/A
anbotek	Clearance at least 5 mm	anbotek Anbo Ak	N/A
4.7 (4.18)	Resistance to corrosion	k mbotek Anbor P	N/A
4.7 (4.18.1)	- rust-resistance	ok botek Anbore	N/A
4.7 (4.18.2)	- season cracking in copper	ok hotek Anbote	N/A
4.7 (4.18.3)	- corrosion of aluminium	bore An botek Anbotek	N/A
4.7 (4.19)	Ignitors compatible with ballast	Anbore Anb	N/A
4.7 (4.20)	Rough service vibration	Anbotek Anbotek	N/A
4.7 (4.21)	Protective shield	Anbotek Anbo tek	N/A
4.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	ek Anbotek Anbotek	N/A
ier Vun	Shield of glass if tungsten halogen lamps	poter. And stek subotek	N/A
4.7 (4.21.2)	Particles from a shattering lamp not impair safety	Anbotek Anbo	N/A
4.7 (4.21.3)	No direct path	Anbotek Anbo	N/A
4.7 (4.21.4)	Impact test on shield	abotek Anbott An	N/A
botek	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	otek Anbotek Anbotek	N/A
4.7 (4.23)	Semi-luminaires comply Class II	obotek Anbote An	N/A
4.7 (4.24)	Photobiological hazards	abotek Anboten And	otek P
4.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Anbotek Anbores An	N/A
4.7 (4.24.2)	Retinal blue light hazard	ek Anborn Ann wotek	AU Dyes
k Anbo	Class of risk group assessed according to IEC/TR 62778	otek Aupotek Aupotek	_
20. Pr.	Luminaires with Ethr:	Anbore Anbore	N/A







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or bupo.	IEC 60598-2-4	- Arbo - rete	VUpo1
Clause	Requirement + Test	Result - Remark	Verdict
ik aupo,	a) Fixed luminaires	Otek Pupology Vilpo	N/A
otek on	- distance x m, borderline between RG1 and RG2:	otek Anbotek Anbor	N/A
otek	- marking and instruction according 3.2.23	Moo tek Anbotek Anbor	N/A
indu otek	b) Portable and handheld luminaires	Anbotek Anbotek Ank	P
Anbotek	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	RG0	nbore P
k Anbor	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	otek Anbotek Anbotek	N/A
4.7 (4.25)	Mechanical hazard	abotek Anbote Am	rek P
abotek	No sharp point or edges	Anborek Anbores Anb	P
4.7 (4.26)	Short-circuit protection	k shotek Anbote, p	N/A
4.7 (4.26.1)	Adequate means of uninsulated accessible SELV parts	ctek Anbotek Anbotek	N/A
4.7 (4.26.2)	Short-circuit test with test chain according 4.26.3	abotek Anbore Ane sotek	N/A
botek	Test chain not melt through	-botek Anbote And	N/A
Anbotek	Test sample not exceed values of Table 12.1 and 12.2	Anbotek Anbotek And	N/A
4.7 (4.27)	Terminal blocks with integrated screwless earthin	g contacts	N/A
Anbore	Test according Annex V	Jek Anbore Ann	N/A
ek Anb	Pull test of terminal fixing (20 N)	notek Anboren Anbo	N/A
notek p	After test, resistance < 0,05 Ω	hotek Anbotek Anbu	N/A
-oiek	Pull test of mechanical connection (50 N)	Anbotek Anbotek Anbo	N/A
And	After test, resistance < 0,05 Ω	And Lotek Anbotek Ar	N/A
Ans	Voltage drop test, resistance $< 0.05 \Omega$	And otek anbotek	N/A
4.7 (4.28)	Fixing of thermal sensing control	ter And atek Anbotek	N/A
Anbo	Not plug-in or easily replaceable type	botek Anbotek	N/A
otek Ar	Reliably kept in position	Anbotek Anbo	N/A
unbotek	No adhesive fixing if UV radiations from a lamp can degrade the fixing	Anbotek Anbotek An	N/A
Anos	Not outside the luminaire enclosure	And tek nbotek	N/A
Anbo.	Test of adhesive fixing:	ek Aupo, rek apotek	N/A
K Aupo.	Max. temperature on adhesive material (°C):	cotek Aupor ak spotek	_
otek no	100 cycles between t min and t max	stok vupo, Mr.	N/A







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Aupole.	Antorek Anborek	Anbore And Lotek And	otek
Anhorek	IEC 60598-2-4	Anhotek Anho	rupotek.
Clause	Requirement + Test	Result - Remark	Verdict
k anbo	Temperature sensing control still in position	otek anborek Anbo.	N/A
4.7 (4.29)	Luminaires with non-replaceable light source	otek Anborek Anbor	N/A
rek	Not possible to replace light source	rupo rek vupotek Vupot	N/A
Anbotek	Live part not accessible after parts have been opened by hand or tools	Anbotek Anbotek Anb	N/A
4.7 (4.30)	Luminaires with non-user replaceable light source	k Anbores Anbo	*"Pick
k Anbore	If protective cover provide protection against electric s electric shock risk" symbol:	hock and marked with "caution,	Phot
Olo, Vu.	Minimum two fixing means	upoten Amborek Ambore	P An
4.7 (4.31)	Insulation between circuits	Anboten Anb	P P
Anbotek	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	Anbotek Anbotek A	N/A
Anbote Anb	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	tek Anbotek Anbotek	N/A
4.7 (4.31.1)	SELV or PELV circuits	Anbotek Anbo ek abo	e P
anbotek	Used SELV or PELV source	Anbotek Anbot At	hote\P
apotek	Voltage ≤ ELV	Anborok Anbors A	N/A
hotel	Insulating of SELV or PELV circuits from LV supply	ek abotek Anbote	N/A
ek Aupo	Insulating of SELV or PELV circuits from other non SELV circuits	ootek Anbotek Anbotek	N/A
botek A	Insulating of SELV or PELV circuits from FELV	Anbotek Anbot At.	M/A ₃
Anbotek	Insulating of SELV or PELV circuits from other SELV circuits	Anbotek Anbotek An	poře*P
Anbo.	SELV or PELV circuits insulated from accessible parts according Table X.1	Anbotek Anbotek	Anbore botek
ek Aupo,	Plugs not able to enter socket-outlets of other voltage systems	potek Anbotek Anbotek	N/A
otek Ar	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek Anbot	N/A
Anbotek	Plugs and socket-outlets does not have protective conductor contact	Anbotek Anbotek An	N/A
4.7 (4.31.2)	FELV circuits	anbotek Anbo	N/A
k Aupor	Used FELV source	otek Anbotek Anbor	N/A
ntek an	Voltage ≤ ELV	otek Anbotek Anbote	N/A
- 100	Insulating of FELV circuits from LV supply	Way Pok	N/A







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-potek	IEC 60598-2-4	shotek Anbo, Ar	rek
Clause	Requirement + Test	Result - Remark	Verdict
PLI.	ek Wpotek Yupo,	All Alborek	Puppe
rek Aupo	FELV circuits insulated from accessible parts according Table X.1	otek Anbotek Anbotek	N/A
	Plugs not able to enter socket-outlets of other voltage systems	Anbotek Anbotek Anbote	N/A
Anbotek	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek	N/A
Anbor	Socket-outlets does not have protective conductor contact	trek Anbotek Anbotek	N/A
4.7 (4.31.3)	Other circuits	otek Anbotek Anbox	N/A
nbotek	Other circuits insulated from accessible parts according Table X.1	Anbotek Anbotek Anbote	N/A
Anbotek	Class II construction with equipotential bonding for prowith live parts:	tection against indirect contacts	N/A
Pur.	- conductive parts are connected together	Ant otek Anbotek	N/A
Anbo	- test according 7.2.3	ler Anb stek Anbotek	N/A
rek And	- conductive part not cause an electric shock in case of an insulation fault	botek Anbotek Anbotek	N/A
nek.	- equipotential bonding in master/slave applications	And otek Anborek Anbe	N/A
Anbotek	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	Anbotek Anbotek A	N/A
Anbotel	- slave luminaire constructed as class I	ek Anbotek Anbo	N/A
1.7 (4.32)	Overvoltage protective devices	stek anbotek Anbor	N/A
rek.	Comply with IEC 61643-11	tek spotek Anbote	N/A
or A	External to controlgear and connected to earth:	Anbor ak abotek Anbo	N/A
Anboro	- only in fixed luminaires	Anbor An hotek An	N/A
Aupore.	- only connected to protective earth	Aupore, Mun Polek	N/A
4.7 (4.33)	Luminaire powered via information technology co	mmunication cabling	N/A
Anbo Anbo	Requirements for Class III luminaire	lotek Anboien And	N/A
otek Ar	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector	Anbotek Anbotek Anbot	N/A
Anbotek	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A





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Clavias	Demiliant a Test	Desuit Demonic	Mondiat
Clause	Requirement + Test	Result - Remark	Verdict
4.7 (4.34)	Electromagnetic fields (EMF)	notek Anbotok Anbo	Pupo
otek An	No harmful electromagnetic fields	botek Anbotek Anbo	6 P
4.7 (4.35)	Protection against moving fan blades	Anbotek Anbotek Anbo	N/A
Tues Otek	Test with a standard test finger	Anto Anbotek Anb	N/A
Anbotek	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire	Anborek Anborek	N/A
K Anbor	Blades rounded with radius ≥ 0.5 mm and:	otek Ambotes Amb	N/A
stek Ant	- hardness less than D60 Shore	sotek Anbotek Anbo.	N/A
otek	- peripheral speed less than 15 m/s	no otek anbotek Anbo	N/A
up.	- input power of fan ≤ 2 W at rated voltage	Anti-	N/A
4.7 (4.36)	Track-mounted luminaires	Anbo tek anbotek A	N/A
Anbore	Test in accordance with Annex A of IEC60570:2003/AMD2:2019	tek Anbotek Anbotek	N/A
4.7.1 (-)	- peripheral speed less than 15 m/s	otek Anbotek Anbot	N/A
4.7.2 (-)	- input power of fan ≤ 2 W at rated voltage	housek Aupora	N/A
Anborek	Carrier or clips of insulation material or with insulating lining	Anbotek Anbotek Anbo	N/A
4.7.3 (-)	Luminaire not overturn at angle 6°	Anbotek Anbo. A.	N/A
Anbotel	Outdoor use luminaire not overturn at an angle 15°	ek Anbotek Anbo	N/A
4.7.4 (-)	Candlestick luminaires with E5 or E10 lampholders provided with a switch	potek Anbotek Anbotek	N/A
potek A	Switch part of the luminaire or within 300 mm of the luminaire if with cord	Anbotek Anbotek Anbot	N/A
4.7.5 (-)	Voltage not exceeding 25 V for E5 lampholders	And atek anbotek An	N/A
Anbo	E10 lampholder voltage:	And stek anbotek	N/A
Aupo	- not exceeding 60 V for series connection) or	Anbo sek abotek	N/A
sk Aupo	- not exceeding 250 V for parallel connections	lotek Anbo. Lak abotek	N/A
otek M	Maximum rated wattage not exceed 100 W	upotek Aupo, ak hot	N/A
4.7.6 (-)	Portable luminaires for outdoor use tails not provided	abotek Anbore Ann	N/A
4.7.7 (-)	Portable luminaires for outdoor use, cable entries	abotek Anbotes An	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.	k Anbotek Anbotek	N/A
otek An	Degree of protection maintained with or without a plug inserted into the socket-outlet.	botek Anbotek Anboten	N/A







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Vupo,	IEC 60598-2-4	pote.
Clause	Requirement + Test Result - Remark	Verdict
MURO	ok hotek Anbore ku stek substek Anbo ok hotek	Anbore
otek Anbor	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
V	Compliance to clause 13.4	N/A
4.8 (11)	CREEPAGE DISTANCES AND CLEARANCES	PA
,nbotek	Impulse withstand category (Normal category II) Category II ☒ Category III ☒ (Category III Annex U, Table U.1)	· —
All. Potek	Category III according Annex U	Pek
Anbore	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1	N/A
4.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	N/A
otek c	Creepage distances for frequency over 30 kHz:	P P
Anborek	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w	nbotek P
Anbore.	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	N/A
4.8 (11.2.3)	Clearances for frequency up to 30 kHz	N/A
Ans	Clearances distances for frequency over 30 kHz:	PARI
pole. V	- Controlgear marked with <i>U</i> P	P
Anbotek	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	N/A
4.9 (7)	PROVISION FOR EARTHING	N/A
4.9 (7.2.1 + 7.2.3)	Accessible metal parts	N/A
otek Ar	Metal parts in contact with supporting surface	N/A
-orek	Resistance < 0,5 Ω:	N/A
run Clek	Self-tapping screws used	N/A
Aupo	Thread-forming screws	N/A
Anbor	Thread-forming screw used in a grove	N/A
K Anboi	Earth makes contact first	N/A
otek An	Terminal blocks with integrated screwless earthing contacts tested according Annex V	N/A







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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Trequirement + Test	Tresuit - Tremain	verdict
ek Anbor	Protective earthing of the luminaire not via built-in control gear	otek Anborek Anborek	N/A
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.	Anbotek Anbotek Anbot	N/A
4.9 (7.2.4)	Locking of clamping means	upotek Anbor An	N/A
habotek	Compliance with 4.7.3	k nbotek Anbote	N/A
k Aupote	Terminal blocks with integrated screwless earthing contacts tested according Annex V	otek Anbotek Anbotek	N/A
4.9 (7.2.5)	Earth terminal integral part of connector socket	upotek Aupor Ar. pote	N/A
4.9 (7.2.6)	Earth terminal adjacent to mains terminals	anbotek Anbote Att.	N/A
4.9 (7.2.7)	Electrolytic corrosion of the earth terminal	Anborek Anbore And	N/A
4.9 (7.2.8)	Material of earth terminal	Anbotes Anbotes	N/A
Air.	Contact surface bare metal	ok hotek Anbotek	N/A
4.9 (7.2.10)	Class II luminaire for looping-in	Ans work Anborek	N/A
Yer. Yur	Double or reinforced insulation to functional earth	bote. And otek anbotel	N/A
4.9 (7.2.11)	Earthing core coloured green-yellow	Anbotek Anbo	N/A
Anbotek	Length of earth conductor	Anbotek Anbo tek	N/A
4.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose	Anbotek Anbotek	N/A
4.10 (14)	SCREW TERMINALS		N/A
lek Vup.	Separately approved; component list:	(see Annex 1)	N/A
bolek A	Part of the luminaire:	(see Annex 3)	N/A
4.10 (15)	SCREWLESS TERMINALS AND ELECTRICAL CON	NECTIONS	N/A
abotek	Separately approved; component list:	(see Annex 1)	N/A
A. abotek	Part of the luminaire:	(see Annex 4)	N/A
4.11 (5)	EXTERNAL AND INTERNAL WIRING		And
4.11 (5.2)	Supply connection and external wiring	po, Ar. Potek Vupoter.	Public
4.11 (5.2.1)	Means of connection:	Input terminal	PA
Anbotek Anbotek	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	Anbotek Anbotek An	N/A
4.11 (5.2.2)	Type of cable:	2464	An Press
K Anbor	Nominal cross-sectional area (mm²):	24AWG	Pnbo
he Yes	Cables equal to IEC 60227 or IEC 60245	tek above And	N/A







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Clause	Requirement + Test	Result - Remark	Verdict
Clause	Requirement + Test	Result - Remark	verdict
4.11 (5.2.3)	Type of attachment, X, Y or Z:	No supply cord	N/A
4.11 (5.2.5)	Type Z not connected to screws	hotek Anbotek Anbo	N/A
4.11 (5.2.6)	Cable entries:	hotek Anbotet Anbo	N/A
74.	- suitable for introduction	Ann Anbotek Anb	N/A
Ann	- adequate degree of protection	And Anbotek	N/A
4.11 (5.2.7)	Cable entries through rigid material have rounded edges	Piek Wilhotek Wipotek	N/A
4.11 (5.2.8)	Insulating bushings:	botek Anbotek Anbo	
-otek	- suitably fixed	notek Anbotek Anbo	N/A
nv	- material in bushings	And Anbotek Anb	N/A
Anbo	- material not likely to deteriorate	Anbotek Anbotek A	N/A
Anbu	- tubes or guards made of insulating material	Anbo tek nbotek	N/A
4.11 (5.2.9)	Locking of screwed bushings	tek Aupo, Tek apotek	N/A
4.11 (5.2.10)	Cord anchorage:	potek Anbor Ar botek	-Anl
botek I	- covering protected from abrasion	nbotek Anbore An	ĕ N/A
botek	- clear how to be effective	hotek Anbore An	N/A
Pr. Potek	- no mechanical or thermal stress	hotek Anboter Ar	N/A
Ai.	- no tying of cables into knots etc.	k hotek Anboten	N/A
V. V.	- insulating material or lining	An Antotek Antotek	N/A
4.11 (5.2.10.1)	Cord anchorage for type X attachment:	botek Anbotek Anbotek	ek -tup
hotek	a) at least one part fixed	Anbotek Anbotek Anbo	N/A
Aur	b) types of cable	An-	N/A
Ann	c) no damaging of the cable	Ant otek Anbotek	N/A
PUD	d) whole cable can be mounted	And stek anbotek	N/A
anbo Anbo	e) no touching of clamping screws	otek Anbo tek abotek	N/A
otek Ar	f) metal screw not directly on cable	Anbotek Anbo. Ar. bot	N/A
anbotek	g) replacement without special tool	anbotek Anbor An	N/A
abotek	Glands not used as anchorage	nbotek Anbore Am	N/A
h. shotek	Labyrinth type anchorages	k potek Aupote.	N/A
4.11 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	No supply cord	N/A







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-botek	IEC 60598-2-4	-botek Anbo, Ar	Nek
Clause	Requirement + Test	Result - Remark	Verdict
K MO	rk Villoger Vupo,	All work Allhoten	AUD
Anb.	- impossible to push cable; unsafe	oter And	N/A
otek An	- pull test: 25 times; pull (N):	nbotek Anbo, Ak Bote	N/A
botek	- torque test: torque (Nm):	botek Anbore An	N/A
botek.	- displacement ≤ 2 mm	hotek Anbote An	N/A
VII.	- no movement of conductors	Anbotek Anbotek	N/A
And	- no damage of cable or cord	And otek Anbotek	N/A
And	- function independent of electrical connection	oter Andotek anbotek	N/A
4.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with	maximum current of 2A:	N/A
Anbotek	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC	Anbotek Anbotek Anb	N/A
Aupote	- Ordinary Class III luminaire supplied with PELV ≤ 12V RMS/30V DC	tek Anbotek Anbotek	N/A
rek Anb	- Other than ordinary Class III luminaire supplied with voltage ≤ 12V RMS/30V DC	botek Anbotek Anbotel	N/A
upole.	Pull test of 30 N	Anborer And	N/A
4.11 (5.2.11)	External wiring passing into luminaire	Anbotek Anbo tek	N/A
4.11 (5.2.12)	Looping-in terminals	Anbotek Anbo Lek	N/A
4.11 (5.2.13)	Wire ends not tinned	ek Anbotek Anbo	N/A
ek	Wire ends tinned: no cold flow	tek abotek Anbota	N/A
4.11 (5.2.14)	Mains plug same protection	oo kek abotek Anbore	N/A
100, K	Class III luminaire plug	Anbo, ok Polek Vulpo	N/A
Aupor	No unsafe compatibility	Aupore K Pure Puer	N/A
4.11 (5.2.16)	Appliance inlets (IEC 60320)	Anboro And Otek	N/A
Anboles	Installation couplers (IEC 61535)	ek Anbores Anbo	N/A
ek Aupo	Other appliance inlet or connector according relevant IEC standard	totek Anbotek Anbotek	N/A
4.11 (5.2.17)	No standardized interconnecting cables properly assembled	Anborek Anborek Anbor	N/A
4.11 (5.2.18)	Used plug in accordance with	Anbotek Anbote An	N/A
Aupo.	- IEC 60083	k Anbo ok hotek	N/A
k Aupor	- other standard	otek Aupon Air Motek	N/A
4.11 (5.3)	Internal wiring	notek Anbole And	P.





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potek	IEC 60598-2-4	shotek Anbo	rojek
Clause	Requirement + Test	Result - Remark	Verdict
4 44 (5 0 4)	Internal Vising of a vitable site and the back	lek sporek Aupore	Paloo
4.11 (5.3.1)	Internal wiring of suitable size and type	ore Arr. Hotek Anbotek	D11.
ooter. An	Through wiring	upote, Yun Oleh Vupote	N/A
Anhorek	- not delivered/ mounting instruction	Anbotel And	N/A
Anbotek	- factory assembled	Anborek Anbo A.	N/A
Anbotek	- socket outlet loaded (A):	Anborek Anbor	N/A
k 20016	- temperatures:	(see Annex 2)	₽U,b
V VIII	Green-yellow for earth only	no All Kotek Aupoter	N/A
4.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring	nbotek Anbotek Anbote	N/A
ins	Cross-sectional area (mm²):	Ant otek Anbotek Anb	N/A
Aupr	Insulation thickness	Anbotek anbotek A	N/A
Anbo	Extra insulation added where necessary	Anbo sek abotek	N/A
4.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	rrent-limiting device	N/A
vek .	Cross-sectional area (mm²):	ibo tek abotek Anbote	N/A
4.11 (5.3.1.3)	Double or reinforced insulation for class II	Anbotek Anbotek Anbo	N/A
4.11 (5.3.1.4)	Conductors without insulation	Anbotek Anbotek	N/A
4.11 (5.3.1.5)	SELV current-carrying parts	otek Anbotek Anbotek	N/A
4.11 (5.3.1.6)	Insulation thickness other than PVC or rubber	Anbotek Anbotek Anbo	N/A
4.11 (5.3.2)	Sharp edges etc.	Anbores Anbe	N/A
anbotek	No moving parts of switches etc.	Anbotek Antro	N/A
nbotek	Joints, raising/lowering devices	ek shotek Anbor	N/A
ek abo	Telescopic tubes etc.	rek abotek Anbute.	N/A
rak bir	No twisting over 360°	o. A. Abotek Anboten	N/A
4.11 (5.3.3)	Insulating bushings:	Anbor Anbor	N/A
Vuposo.	- suitable fixed	Anbote. And	N/A
Anbotek	- material in bushings	Anboten Ando stek	N/A
Anborak	- material not likely to deteriorate	K Anbotek Anbo	N/A
K Noot	- cables with protective sheath	otek Anboiek Anbor	N/A
4.11 (5.3.4)	Joints and junctions effectively insulated	K Kotek Autobe	N/A







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-hotek	IEC 60598-2-4	shorek Anbor An	rek
Clause	Requirement + Test	Result - Remark	Verdict
4.11 (5.3.5)	Strain on internal wiring	rek abotek Anboten	N/A
	Tek Vipo, by VK More, Wu	or Ar hotek Aupoter	Dir.
4.11 (5.3.6)	Wire carriers	inbote Ann hotek Anbote	N/A
4.11 (5.3.7)	Wire ends not tinned	Aupoter And	N/A
4.11 (5.4)	Wire ends tinned: no cold flow Test to determine suitability of conductors having	a reduced cross-sectional	N/A N/A
Anbe	area Anbore Alli	And And Aborek	Anbors
k Aupon	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	hbore Anbote	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	Anbotek Anbotek Anbotek Anb	_
4.11.2 (-)	Class I and class II indoor use	Class III for indoor use	Phote
	Luminaire with a mass less than 1 kg the current ≤ 2,5 A and cable ≤ 2 m and conductor ≥ 0,5 mm²	botek Anbotek Anbotek	Ans
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.	Anbotek Anbotek Anbo	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.	ek Anbotek Anbotek	N/A
4.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		N Die
4.12 (8.2.1)	Live parts not accessible	Anbo Anbo	Р
Anborek	Basic insulated parts not used on the outer surface without appropriate protection	Anbotek Anbotek An	potek
ek Anbotek	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	otek Anbotek Anbotek	Anbotek Anbotek
botek Ar	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Anbotek Anbotek Anbot	N/A
Anborek Anborek	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements	Anbotek Anbotek Ani	N/A
ak Anbore	Basic insulation only accessible under lamp or starter replacement	tek Anbotek Anbotek	N/A
rak bi	Protection in any position	tek abotek Anborot	N/A
Pig.	Double-ended tungsten filament lamp	who we who we	N/A







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potek	IEC 60598-2-4	-botek Anbo. A.	otek.
Clause	Requirement + Test	Result - Remark	Verdict
K MO	rk Anbotek Anbo.	All solak Alboren	AUD
Vup.	Insulation lacquer not reliable	oter Aug tek Vupotek	N/A
otek An	Double-ended high pressure discharge lamp	upotek Aupo, kr. Potk	N/A
upotek - ok	Relevant warning according to 3.2.18 fitted to the luminaire	Anbotek Anborek Ank	N/A
4.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position	Anbotek Anbotek	N/A
4.12 (8.2.3.a)	Class II luminaire:		N/A
otek An	- basic insulated metal parts not accessible during starter or lamp replacement	hotek Anbotek Anbote	N/A
nbotek	- basic insulation not accessible other than during starter or lamp replacement	Anbotek Anbotek Anb	N/A
Anbotek	- glass protective shields not used as supplementary insulation	Anbotek Anbotek	N/A
4.12 (8.2.3.b)	BC lampholder of metal in class I luminaires is earthed	hotek Anbotek Anbotek	N/A
4.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:	Anbotek Anborek Anbo	N/A
Anbore	Ordinary luminaire:	Anbore And otek	N/A
Aupoter	- voltage under load (V):	Anbore And tek	N/A
Anbote	- no-load voltage (V)::	ek Anbotek Anbo	N/A
ek ab	- touch current if applicable (mA):	stek anbotek Anbote	N/A
*ek	One conductive part insulated if required	bo. W. Społek Wupote.	N/A
bo, b	Other than ordinary luminaire:	Anton Ak Anto	P
Anbore	- nominal voltage (V):	Anbore An botek An	N/A
Aupore	Class III luminaire only for connection to SELV	Anbote Anb Jek	N/A
Anboien	Class III luminaire not provided with means for protective earthing	ok Anbotek Anbotek	N/A
4.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:	Anbotek Anbotek Anbotek	N/A
aborek	Ordinary luminaire:	anborek Anbore An	N/A
abotek	- voltage under load/ no-load AC (V):	abotek Anbotes An	N/A
hotek	- voltage under load/ no-load DC (V):	k botek Anboten	N/A
P.O.	Other than ordinary luminaire:	K Motek Anborek	N/A
Pugo.	- voltage under load/ no-load AC (V):	oter andotel	N/A
otok bu	- voltage under load/ no-load DC (V):	upotok bupo, by	N/A







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Ar. botek	IEC 60598-2-4	Anbotek Anboten Ant	rek
Clause	Requirement + Test	Result - Remark	Verdict
Ans	orek anbor	An ok botek	AUPO
k Anbo	Pole not connected to earth insulated	otek Anbor k hotek	N/A
otek An	Class III luminaire only for connection to SELV or PELV	inbotek Anbote Anbote	N/A
4.12 (8.2.4)	Portable luminaire have protection independent of supporting surface	Anbotek Anbotek Anb	o ^{ter} P
4.12 (8.2.5)	Compliance with the standard test finger or relevant probe	Anbotek Anbotek	Prek Anbotek
4.12 (8.2.6)	Covers reliably secured	stek Anbor Lek abotek	Block
4.12 (8.2.7)	Luminaire other than below with capacitor $> 0.5~\mu F$ not exceed 50 V 1 min after disconnection	hotek Anbotek Anbotel	N/A
Aupotek	Portable luminaire with capacitor $> 0.1~\mu F$ (0.25) not exceed 34 V 1 s after disconnection	Anbotek Anbotek Anbo	N/A
Anbote	Other luminaires with capacitor $> 0.1~\mu F$ (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection	tek Anbotek Anbotek	N/A
4.12. (-)	Class I luminaire with bayonet lampholder:	abotek Anbote. Amb	N/A
botek P	1) cap not accessible with test finger	botek Anbotes Anbo	« N/A
rek	2) metal lampholder is earthed	Anbores Anbores	N/A

4.13 (12)	ENDURANCE TEST AND THERMAL TEST		Aup.
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	hotek Anbotes And	_
hotek	Lamp used according Annex B	See Annex 2 for lamp used	_
Anbotek	Controlgear if separate and not supplied:	See Annex 2 for controlgear used	_
4.13 (12.3)	Endurance test:	ek Anbore And	Anbotek
tek Anbe	a) mounting-position:	As in normal use	_
hotek A	b) test temperature (°C):	50°C	_
hotek	c) total duration (h)	240 h	_
Anbotek	d) if not equipped with controlgear, constant voltage/current (V) or (A):	36*1.1=39.6VDC	_
Anbore	e) luminaire ceases to operate	k Anbore Ans	_
4.13 (12.3.2)	After endurance test:	potek Anbotek Ambotek	Panbot
00, by	- no part unserviceable	Tupos K Pure Putek Vupose	P Ani







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-hotek	IEC 60598-2-4	polek Anbor Al	rek
Clause	Requirement + Test	Result - Remark	Verdict
Y 70,	ak Ambotek Ambo	ak botok Arboten	AMP
Ant	- luminaire not unsafe	kote, Ann otek Anbotek	Pnbo
oten An	- no damage to track system	inboter Anbotek Anbote	N/A
Inhotek .	- marking legible	Ambotek Ando. A.	otek P
anbotek	- no cracks, deformation etc.	Anbotek Anbote An	P
4.13 (12.4)	Thermal test (normal operation):	(see Annex 2)	L P
4.13 (12.5)	Thermal test (abnormal operation)	All notek Anbotek	N/A
4.13 (12.6)	Thermal test (failed lamp control gear condition):	poter. And tek aupotek	N/A
4.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)	Anbotek Anbotek Anbotel	_
in otek	- case of abnormal conditions:	And Anbotek Anb	_
Ann	- electronic lamp control gear	And stek anbotek A	N/A
Anbo	- measured winding temperature (°C): at 1,1 Un:	Anbo sek abotek	
tek Anbo	- measured mounting surface temperature (°C) at 1,1 Un:	creek Anbotek Anbotek	N/A
atek .	- calculated mounting surface temperature (°C):	otek nabotek Anbo	N/A
16K	- track-mounted luminaires	Anbotek Anbotek	N/A
4.13 (12.6.2)	Temperature sensing control	Anbotek Anbotek A	N/A
Anbotel	- case of abnormal conditions:	rek Anbotek Anbo	
ek nob	- thermal link	otek unbotek Anbor	N/A
.eV	- manual reset cut-out	rek abotek Anbote	N/A
100. h	- auto reset cut-out	Anborek Anborek	N/A
Aupo	- measured mounting surface temperature (°C):	Anboa An botek An	N/A
Anbore	- track-mounted luminaires	Anbore An work	N/A
4.13 (12.7)	Thermal test (failed lamp control gear in plastic lu	minaires):	Anbore
4.13 (12.7.1)	Luminaire without temperature sensing control	botek Anbotek Anbotek	N/A
4.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	Anbotek Anbotek Anbot	N/A
upotek	Test method 12.7.1.1 or Annex W:	Anbotek Anbote An	_
abotek	Test according to 12.7.1.1:	ek shotek Anbote	N/A
k ho ₄	- case of abnormal conditions:	sek stotek Anboien	~0~
Y Anv	- Ballast failure at supply voltage (V):	kete Aut Potek Pupolok	_
7910		MOTO AND	







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botek	IEC 60598-2-4	abotek Anbo Ar	-otek
Clause	Requirement + Test	Result - Remark	Verdict
K PUL	alk alkotek Aupo	k kotek anbotek	Aupo
er Ano	- Test with standard test finger after the test	coter And otek Anbotek	N/A
potek Ar	Test according to Annex W:	Pupotek Vupo, Marie Vipote	N/A
Morek	- case of abnormal conditions:	Anborek Anbo. A.	_
botek	- measured winding temperature (°C): at 1,1 Un:	botek Anbote An	_
Anbotek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Anbotek Anbotek	_
rek Aupor	- calculated temperature of fixing point/exposed part (°C):	otek Anbotek Ambotek	_
o ak	Ball-pressure test:	See Table 4.15 (13.2.1)	N/A
4.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	N/A
nbotek	- case of abnormal conditions:	k Vupotek Vupor b	_
k above	- measured winding temperature (°C): at 1,1 Un:	tek nbotek Anbote	_
otek Ant	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	botek Anbotek Anbotek	_
inbotek	- calculated temperature of fixing point/exposed part (°C):	Anbotek Anbe	_
Anb	Ball-pressure test:	See Table 4.15 (13.2.1)	N/A
4.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	ek Anbotek Anbotek	N/A
rek anb	- case of abnormal conditions:	otek Anbotek Anbo	_
otek n	- Components retained in place after the test	otek Anbotek Anbo	N/A
up tek	- Test with standard test finger after the test	Anbotek Anbotek Anbo	N/A
4.13 (12.7.2)	Luminaire with temperature sensing control	Anbotek Anbotek An	N/A
Anborek	- thermal link:	Yes No	_
iek anbo	- manual reset cut-out:	Yes No No	_
stek of	- auto reset cut-out:	Yes No	_
ton. P	- case of abnormal conditions:	Anbot Anbotek Anbot	_
Anborek Anborek	- highest measured temperature of fixing point/ exposed part (°C)::	Anbotek Anbotek An	_
Anbotek	Ball-pressure test:	See Table 4.15 (13.2.1)	N/A
4.13 (-)	Indoor use luminaire, Test overturned position (overturns < 15°)	cotek Anbotek Anbotek	Р





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Aupo	IEC 60598-2-4	Anho sek mbotek An	-V
Clause	Requirement + Test	Result - Remark	Verdict
Anhore	ak hotek Andren andr kek ador	And And Moter	Ambalat
4.14 (9)	RESISTANCE TO DUST AND MOISTURE		- Aribol
4.14 (-)	If IP > IP 20 the order of tests as specified in clause 4.	.12 arek Ambore Am	r P
4.14 (9.2)	Tests for ingress of dust, solid objects and moisture:	Anbotek Anbote And	ntel ^k P
hotek.	- classification according to IP:	IP20	_
An. Potek	- mounting position during test:	As in normal use	
K Pur	- fixing screws tightened; torque (Nm):	0.4	
V. Vie	- tests according to clauses:	9.2.0	
Ote An	- electric strength test afterwards	upotes Aup otek Aupote	P Pul
Hupotes.	a) no deposit in dust-proof luminaire	Anboter Anto stek Anto	N/A
Anbotek	b) no talcum in dust-tight luminaire	Anboten Anbo	N/A
Anbotek	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	Aupotek Aupotek	N/A
otek Anb	c.1) For luminaires without drain holes – no water entry	hotek Anbotek Anbotek	N/A
nbotek	c.2) For luminaires with drain holes – no hazardous water entry	Anbotek Anborek Anbo	N/A
Anborek	d) no water in watertight or pressure watertight luminaire	Anbores Anbotek A	N/A
hung motel	e) no contact with live parts (IP 2X)	k hotek Anbotek	Anbor P rel
hung.	e) no entry into enclosure (IP 3X and IP 4X)	Anbotek Anbotek	N/A
Potek View	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	botek Anbotek Anbotek	N/A
Anbotek	f) no trace of water on part of lamp requiring protection from splashing water	Anbotek Anbotek Anb	N/A
Aupora	g) no damage of protective shield or glass envelope	Anbote K Motek	N/A
4.14 (9.3)	Humidity test 48 h	25°C; 93% R.H.	Ar Botek
4-14 (-)	Portable luminaire for outdoor use tested in the most unfavourable of the overturned positions likely to occur	otek Anborek Anbotek	N/A
4.15 (10)	INSULATION RESISTANCE AND ELECTRIC STREN	GTH	otek_
4.15 (10.2.1)	Insulation resistance test	upotek Anbo. A.	,,otP-
Anbotek	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø:	k Anbotek Anbotek	_
Sk Aupo	Insulation resistance (M Ω)	otek Anbors Ans hotek	_
otek An	SELV or PELV	botek Anbute Anu	e P so





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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Ans	rk hotek Anbor	Aria ok hotek	Pupo
Aupo,	- between current-carrying parts of different polarity:	100 MΩ (limit : 1MΩ)	Panbo
otek An	- between current-carrying parts and mounting surface:	100 MΩ (limit : 1MΩ)	F P ps
	- between current-carrying parts and LED diffuser:	100 MΩ (limit : 1MΩ)	P
Anbo, Anbotek	- between current-carrying parts and metal parts of the luminaire	Anbotek Anbotek	N/A
k Anbore	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	hotek Anbotek Anbotek	N/A
riek	- Insulation bushings as described in Section 5 :	otek Anbotek Anbo	N/A
neck	Other than SELV or PELV	Anto stek anbotek Anb	N/A
Yupo,	- between live parts of different polarity:	Aupa, rek apotek b	N/A
Auporg	- between live parts and mounting surface:	Anbox Ak botek	N/A
Anboro	- between live parts and metal parts:	lek Anbout And botek	N/A
tek Vup	- between live parts of different polarity through action of a switch	botek Anbotek Anbotek	N/A
Anbotek hbo	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek Anbo	N/A
And	- Insulation bushings as described in Section 5:	Anbotek anbotek	N/A
4.15 (10.2.2)	Electric strength test	ak Anba sek abotek	NPO
ek Aup.	Dummy lamp	potek Anbo. Pk. spotek	N/A
potek A	Luminaires with ignitors after 24 h test	Anbotek Anbote Anti-	N/A
aborek	Luminaires with manual ignitors	abotek Anbote k	N/A
-botek	Test voltage (V):	abotek Anboren Ar	- OTON
hotek	SELV or PELV	ok hotek Anbotes	And Prek
h hun	- between current-carrying parts of different polarity:	500V	PUPP
otek Pun	- between current-carrying parts and mounting surface:	500V	P.nbs
hotek	- between current-carrying parts and LED diffuser:	500V	VP
Anbotek	- between current-carrying parts and metal parts of the luminaire	Anbotek Anbotek An	N/A
Anborek Anbor	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	otek Anbotek Anbotek	N/A
otek An	- Insulation bushings as described in Section 5:	shotek Anbote And	N/A







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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Vien	ok hotek Anbo	Arra ok botek	Vupe
ek Vupo,	Other than SELV or PELV	sotek Anbore An botek	N/A
ootek An	- between live parts of different polarity:	abotek Anbote And	N/A
hotek	- between live parts and mounting surface:	hotek Anbotes Anb	N/A
An wotek	- between live parts and metal parts:	Antotek Anbotek Ant	N/A
Anbotek	- between live parts of different polarity through action of a switch	Anbotek Anbotek	N/A
otek Anbor	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	stek Anbotek Anbotek	N/A
abotek	- Insulation bushings as described in Section 5 :	abotek Anbote Am	_x ⊗ ^k N/A
4.15 (10.3)	Touch current or protective conductor current (mA).:	0.01mA<0.7mA	P
4.16 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		Up Stelk
4.16 (13.2.1)	Ball-pressure test	See Test Table 4.15 (13.2.1)	And P
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)	PAnb
4.16 (13.4)	Proof tracking test (IEC 60112):	See Test Table 4.15 (13.4)	N/A



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Am	Anbotek Anbo	k ku	IEC 60598-2-4	Per posek	Anbotek	Anbo
Clause	Requirement + Test	-tek	Anborek Anbor	Result - Rema	rk Anboten	Verdict

	EN IEC 60598_1 ATTACHMENT	
Clause	Requirement + Test Result - Remark	Verdict
IEC 60598-1	ENT TO TEST REPORT 1 N GROUP DIFFERENCES AND NATIONAL DIFFERENCES	Anbotek Anbotek
Differences	s according to: EN IEC 60598-1: A11: 2022	
TRF templa	ate used: EN IEC 60598-1:2021 Ed. 1.1	Hek A
	t Form No: EU_GD_IEC 60598_1 t Originator: Anbotek achment: 2023-02-16	Anbotek Anbotek
iek Anbe	CENELEC COMMON MODIFICATIONS (EN)	iek in
4 rek	CONSTRUCTION	P
4.11.6	Following completion of these test, add the following test: the test voltage however being reduced to 1500V	Anbotek Anbotek
5 Motek	EXTERNAL AND INTERNAL WIRING	Ant P
5.2.2	Replace "IEC 60227 (all parts) and IEC 60245 (all parts), by EN 50525 (all parts), and delete paragraph 2.	el P Ani
o. h.	Replace table 5.1 – by the following new table	Р
12	ENDURANCE TESTS AND THERMAL TESTS	Arlbore P
12.4.2c	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring	Anbore
NA AUDO.	In table 12.2 footnote add the following:	P _{Anb}
	-after European installation standards (HD 60364 all parts) and (HD 384 all parts)	otek l
abotek.	-after European cable standard (EN 50525 all parts)	Arou
ZB nek	Addition of Annex ZB, Special national conditions and Annex ZC	Ant P al







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Pu. Potek	Anboten Anbo	IEC 60598-2-4	An Anbotek	Anbe
Clause	Requirement + Test	k upotek Aupole	Result - Remark	Verdict

Olauna how	Descriptions of the Angles	Desult Demont	\/oudiot
Clause	Requirement + Test	Result - Remark	Verdict
	Denmark: supply cords of class I luminaires which are delivered without a plug, shall be provided with a visible tag with the following text	Anbotek Anbotek An	N/A
	Vigtigt!	Anbotek Anbo.	k, abotek
3.3 botek	Lederen med grøn/gul isolation	ek nbotek Anbore	D1.
	må kun tilsluttes en klemme mærket	tek Anbotek Anboter	K VUC
	eller —	Anbotek Anbotek Anbot	otek V.
5.2.18	Denmark	Aupote Auropotek	N/A
Anbotek Anbotek	Socket-outlets intended for providing power to other appliances shall be in compliance with SD 60884-2-D1:2017	ek Anbotek Anbotek	N/A
5.2.1	Cyprus	potes And otek Anbote	N/A
oter Aug.	Domestic luminaites intended for connection to a	Anboten Anb	N/A
	standard United Kingdom 13A socket must be pre- fitted with an approved plug complying with BS 1363	Anbotek Anbotek	nbotek
Anbotek Anbotek	Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363	orek Anborek Anborek	N/A
ovek pubo	Plug must be fitted with the correct fuse	botek Anboten And	,eV
No.	Denmark	And Anbotek Anbo	N/A
unbotek A	Supply cords on single-phase portable luminaires having a rated current not exceeding 13A	Anbotek Anbotek A	N/A
	For luminaires having an acoliance inlet, the plug on the supply cord shall comply with te above requirements	otek Anbotek Anbotek	N/A
nbotek Anbot	If multi-phase luminaires and single-phase luminaires having a rated current exceeding 13A are provided with a supply cord with a plug, the plug shall comply with the following table or EN 60309.	Anbotek Anbotek Anbo	N/A
Aupore.	Finland	Anbore And Motek	N/A
Anbotek Anbotek	For luminaires provided with non-detachable flexible calbles and cords and a plug, the plug shall comply with the requirements of SFS 5610 and EN 50075, the Standard sheets to be applied being as	tek Anbotek Anbotek	N/A





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Pu., Potek	Anboren Anbo	IEC 60598-2-4	Ambotek Ambotek	Anbo
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Verdict

ek Anbore	EN IEC 60598_1 ATTACHM	ENT Ambore America	Anbo
Clause	Requirement + Test	Result - Remark	Verdict
Annex ZC	A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN-CENELEC national memner.	Anbotek Anbotek Anbotek An	Anbotek Anbotek
k Anbotek	This European Standard falls under Directive 2014/35/EU	ek Anbotek Anbotek	ATPOTE TOO





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Ar. hotek	Anboren	Anbu	IEC 60	598-2-4	Ar. Posek	Anbotek	Auprajek
Clause	Requiremen	t + Test	k abotek	Anbore	Result - Rema	rk Anbotel	Verdict
ek anbo	tek Anbot	ek Aupo	otek Anbore	k Aupore	tek Antote	Anbotek	ok Anbo
4.7 (11.2)	TABLE I: Cr	reepage dista	nces and clear	ances	10 10	otek Anbor	P
00. b.	Minimum di	stances (mm) for a.c. up to	30 kHz sinus	soidal voltages	s notek Ani	P Am
Anbore	Applicable	part of IEC 60	598-1 Table 11	.1A*, 11.1B*	and 11.2*	hotek	Anboten P
Anbore	Insulation	Measured	Requ	ired	Measured	Requ	ired
Anbotek	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1	SELV	2.4 mb	rek 1 Anbo.	11.2	2.4 mbotte	And	11.2
Distance 2	SELV	3.5	botek 1 Anh	11.2	atel 3.5	oter 1 Anbo	11.2
Working vol	tage (V)	Aupo.	200 tek	opole . P	36VDC	inbotek Ant	_
PTI	Motek	Aribo	P. Pokek	hopoter	< 600 ⊠	≥ 600 □	7Up
Pulse voltag	e if applicable	e (kV)	Pres	popoles.	- And	Anbotek	_
Supplement 60598-1 An		n: ** Insulation	type: B – Basic	; S – Supplei	mentary; R – R	einforced. See	also IEC
Distance 1:	+ and -;	rok h	botek Aupo	in View	Lotek Anbo	Hope.	100 Apo
Distance 2:	Live part to ac	cessible enclo	sure	ipoter Ar	lo.	abotek Anb	ρ

4.7 (11.2)	TABLE II: C	Creepage dis	stances and c	learances			N/A
Anb	Minimum	distances (mm) for a.c. l	higher than 3	0 kHz sinusoi	dal voltages	Aupo
Vupo.	Applicable	e part of IEC	61347-1 Tab	le 7 and 8* o	r IEC 60664-4	Table 1 and 2	Anbo
Distances	Insulation Measured		Required		Measured	Required	
	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:	Aupor	M. Polek	Anboten	Aup rek	nbotek.	Aupor -	"Olek
Working volt	age (V)	Punn Mak	Killotek	Anbo :	- botek	Anbore	Α'
Frequency if	applicable (kl	Hz)	ok	Anbo	k potel	Auporen	_
PTI					_		
Peak value o	of the working	voltage Û _{out} i	if applicable (k	(V):	Upor Nun	stek Anbo	reli _







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Clause Requirement +	Test	Result - R	emark	Verdict
4.15a (13.2.1) TABLE: Ball F	Pressure Test of Thermop	lastics	inbotok Anbota	Pupo
Allowed impression diameter	ter (mm):	abotek	Anbores Anbo	, KG
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	eter (mm)
Connector	Anboter Anboter	125	1.04	Pr. Potek
LED PCB	Arm rek abotek	125	0.73	Vis.

4.15b (13.3.1)	TABLE: Needle-flame test (IEC	60695-11-5)	botek Ar	Pup.	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
sek spotek	And And Andrek	Anbotek Anbo	- abotek	AT-bore	PU.,
Supplementary	nformation:	Anbotek Ani	oo, k, abo	ek Wipole,	Y VUD

4.15c (13.3.2)	TABLE	E: Glow-wire test (IEC 60695-2	2-11)			oote ^V P
Glow wire ter	nperatu	re:	650°C	anbotek	Aupo, P	_
Object/ Part N Material	0./	Manufacturer/ trademark		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
LED PCB	oter	_And _tek _nbotek	"upo, by	Lotek No Anbor	0.00	y Pass
Connector	Iupotek,	Anbo	Anbore	No	loter O Pupo	Pass
Plastic enclosi	ure	Aupon ok Pri Potek	Anbore	No	inbotek 0 An	Pass
LED diffuser	de	tek Anbore k hotel	Anbore	No	0,000	Pass
Supplementar	y inform	ation:	rek Anbore	Anbo, stek	Anborek	Anboier

4.15d (13.4) TABLE: Proof	tracking test (IEC 60112)			N/A
Test voltage PTI	:	175 V	ak abotek Ant	_
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 drops with places or on three spec	Verdict	
ek nbotek Anbore	-An-	Anbo Anbo	abotek Anbore	Vi.
Supplementary information:	Ant otek Ar	potek Aupo	abotek Anbote	Anz





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Pur Potek	Anborek Anbo	atek p	IEC 605	98-2-4	Andhorek	Anbotek	Aupo	-
Clause	Requirement + Test	-tek	nbotek	Anbore	Result - Remar	k Anbotek	Verd	lict

ANNEX 1 TA	BLE: Cr	itical components	information	Aupor Au	abotek Anb	P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LED power supply	Anbotek B _{Anbo}	Shenzhen Qianyan Technology LTD	BI72G- 360200-E2	Input: 100- 240Vac, 50/60Hz, 1.8A Max Output: 36Vdc, 2A 72W Ta:40°C Tc:75°C	EN 61347-1 EN 61347-2-13	CE Anborek
LED Anbo	В	Shenzhen Qianyan Technology LTD	3528H21RH	If=60mA, Vf=2.8V~3.4V CCT: 2700-6500K	EN 60598-1 EN 60598-2-4	Test with appliance
PCB of LED module	B _{Anbot}	HUNAN CHENG CHUANG XIN TECHNOLOGY CO LTD	CCX-02	V-0, 130°C	UL 796	UL E502083
Alt.	B ^k	SHENZHEN HEHEXIN ELECTRONIC TECHNOLOGY CO LTD	HHX-D	V-0, 130°C	UL 796	UL E363709
Output LED DC wire	B Anh	SHENZHEN LEVITEK ELECTRONICS CO LTD	2464 2468	Min.24AWG, 80°C, 300V	UL 758	UL E352217
Alt.	B B Albotek	DONGGUAN HONGFUWEI CABLE TECHNOLOGY CO LTD	2464 2468	Min.24AWG, 80°C, 300V	UL 758	UL E316005
Alt.	B Anb	DONGGUAN XIEHE WIRE CO LTD	2464 2468	Min.24AWG, 80°C, 300V	UL 758	UL E251491
Alt.	~16	SHENZHEN RONGCHUN INDUSTRY CO LTD	2464 2468	VW-1,22AWG, 80°C,300V	UL 758	UL E319028
LED Diffuser	Anbotek B Anbo	FORMOSA IDEMITSU PETROCHEMICA L CORP	#2200+	PC, HB, 80°C	UL 94	UL E238753





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Anbo	Anbotek Anboth	atek An	IEC 60598-2-4	Anbotek Anbotek	Anbote
Clause	Requirement + Test	-tek	anbotek Anbote	Result - Remark	Verdict

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





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Ar. Hotek	Anboten Anbo	IEC 60598-2-4	k hotek Anbotek	Anbo
Clause	Requirement + Test	anborek Anbor	Result - Remark	Verdict

ANNEX 2	TABLE: Temperature measurements, thermal test	s of Section 12	Р
hotek	Type reference:	H606A	_
Vu.,	Lamp used:	LED notek Anborek Ani	_
Am	Lamp control gear used:	BI72G-360200-E2	_
Ario	Mounting position of luminaire:	As in normal use	_
Puo.	Supply wattage (W)::	68.4W	_
Yun Yun	Supply current (A):	0.819A	_
upotek l	Temperatures in test 1 - 4 below are corrected for ta (°C):	40°C	_
A. hotek	power factor:	hotek Anboten A	
Viv. Potel	- abnormal operating mode:	ok hotek Anbotek	
1.12 (12.4)	- test 1: rated voltage:	k hotek Anboten	_
botek A	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:	254.4V for LED power supply	_
Anbotek	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	Anbotek Anbotek An	_
Anborek	Through wiring or looping-in wiring loaded by a current of A during the test:	ek Anbotek Anbotek	_
1.12 (12.5)	Through wiring or looping-in wiring loaded by a current of A during the test:	ortek Anbotek Anbotek	_

Temperature measurements, (°C)

Dort	Ambient		Clause 1	Clause 12.5 – abnormal			
Part	Ambient	test 1	test 2	test 3	limit	test 4	limit
LED power supply for Tc	40	Antotek Antotek	59.4	Anbotel	75	k Anbotek	Anbotek Anbotek
Output wire of LED driver	40	k Ant	45.7	otek - Anbi	80 And	otek Anbo	otek And
Connector for luminaire	40	otek I	44.2	Anbotek	Anbo 80	upotek	Anbotek-
LED module	40	'upole	58.6	Antorek	130	- botek	Aupole
LED cover	40	Aupole.	44.9	-nborek	105	botek	pi-bole.
LED PCB	40	Anbote	53.0	tek - vupo	130	ok hop	k Aupor
Mounting surface	40	e Anlo	49.5	atek	botek 90 Anbi	- bus	otek - Ant







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Vup. Potek	Anbotek Anbot	atek ar	IEC 60598	-2-4	Aug	Anbotek An	Po, stek
Clause	Requirement + Test	o tek	nbotek	Anbore	Result - Remark	Anbotek	Verdict
Arra	ok botek	Aupo	r. sek	anbore	Yu.	polek	Aupo
Supplemen	ntary information:						
stek.							





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An. botek	Anbotek Anbo otek	IEC 60598-2-4	Anbotek Anboten	Auprotek
Clause	Requirement + Test	abotek Anbot	Result - Remark	Verdict

ANNEX 3	Screw terminals (part of the luminaire)	N/A
(14)	SCREW TERMINALS	N/A
(14.2)	Type of terminal:	_
abotek	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 Upo ₁	Cross-sectional area (mm²):	_
(14.3.3)	Conductor space (mm):	N/A
(14.4)	Mechanical tests	Anbotek
(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
Anba	External wiring	N/A
Aupo,	No soft metal	N/A
(14.4.5)	Corrosion And Andrew An	N/A
(14.4.6)	Nominal diameter of thread (mm):	N/A
botek	Torque (Nm):	N/A
(14.4.7)	Between metal surfaces	N/A
Motek	Lug terminal	N/A
Am	Mantle terminal	N/A
Nus	Pull test; pull (N):	N/A
(14.4.8)	Without undue damage	N/A

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

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Clause	Requirement + Test	Result - Remark	Verdict
Clause	requirement + rest	Nesult - Nemark	verdict
(15.3.3)	Stop Andrew Andrew	otek Anborek Anbo	N/A
(15.3.4)	Unprepared conductors	hotek Anbotek Anbo	N/A
(15.3.5)	Pressure on insulating material	notek Anbotek Anbo	N/A
(15.3.6)	Clear connection method	Ambotek Anbotek Anb	N/A
(15.3.7)	Clamping independently	And otek Anbotek	N/A
(15.3.8)	Fixed in position	Anto tek anbotek	N/A
(15.3.10)	Conductor size	otek Anbour	N/A
otek Anl	Type of conductor	upotek Aupo, ek apotel	N/A
(15.5)	Terminals and connections for internal wiring	Anbotek Anbote Att	N/A
(15.5.1)	Mechanical tests	nbotek Anbot Am	N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	abotek Anbore A	N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	ok hotek Anbote	N/A
Y Dire	Insertion force not exceeding 50 N	k hotek Anboten	N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)	bote Am anbotek	N/A
(15.5.2)	Electrical tests	Anbore. And otek anbo	N/A
Anboten	Voltage drop (mV) after 1 h (4 samples):	Anboren Anti-	N/A
Anbotek	Voltage drop of two inseparable joints	Anbotek Anbo	N/A
Anbotel	Number of cycles:	ek Anbotek Anbo	
ek Anbi	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	potek Anbotek Anbotek	N/A
botek A	Voltage drop (mV) after 50th alt. 100th cycle (4 samples)	Anborek Anborek Anbor	N/A
Anbotek	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	Anbotek Anbotek An	N/A
ok Aupote.	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	ak Anbotek Anbotek	N/A
(15.6)	Terminals and connections for external wiring	or Anboten	N/A
(15.6.1)	Conductors	Anbore K Anbore	N/A
Aupole	Terminal size and rating	Anbore And	N/A
15.6.2	Mechanical tests	Anboter Anb	N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N)	k Anbotek Anbotek	N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N)	ore Annotek Anbotek	N/A







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					IEC 605	98-2-4					
Clause	Requ	irement + Te	est)K	abotek	Aupo,	Resu	lt - Rema	ark knoc	ter.	Verdic
Pur	No.	Vipolek	Aupo	40.	hotek	امم	pote	Vu.	,a ^V	thoisk	Vupo
(15.6.3)	Elect	rical tests	Anb	ofe	Vien	e/K	anbotek .	Anbo	- V	potek	N/A
otek A	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1								VII.	N/A	
Hotel	anbote	Ann	- Yek	Anbore!	L Ari	00,	br.	ek	hupote,	Ann	Net .
(15.6.3.1) (15.6.3.2)	TABI	_E: Contact	resistar	nce test	/ Heating	g tests	ik An	botek	Anbotek	ek Anb	N/A
Anboten	Volta	ge drop (mV) after 1	h p	uporg	bu.	otek	Anboten	Anbo	rek	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	o (mV)	Vupo.	r b.	wolek	PLOG!	1	The tek		otek	Aupo.	
o, 64	abotel	Voltage dro	p of two	insepara	able joints	Sofek	Aupo	ek bi-	abotek	Anbore	N/A
'upo,	Pr.	Voltage dro	p after 1	0th alt. 2	25th cycle	nbotek	Vupe,	-al-	abotek.	Anbe	N/A
Aupore	p.o.	Max. allowe	ed voltag	e drop (ı	mV)		k An	port ak	bu,	ek p	_
terminal 1		1	2	3	4	5	6	7	8	9	10
voltage drop (mV)			160	Anb_		botek	Pupo,	- P2	orek.	And o	
stek An	pores	Voltage dro	p after 5	0th alt. 1	00th cyc	le	hotek	Anb	oter	Vuga	N/A
Lotek	Anbotek	Max. allowe	ed voltag	e drop (ı	mV)	:	Par Pote	3/4	nbotek	Aupo	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	o (mV)	boten b	'up-	,	otek_	Aupor-	br.	407	-nbot	PE	
Aupo,	K.	Continued a	ageing: v	oltage d	rop after	10th alt.	25th cyc	le	F 25	otek	N/A
Aupor	N	Max. allowe	1-0	er	DUD.		potek	PUPOL	PI.	botek	
terminal	010	1	2	3	4	5	6	7	8	9	10
voltage dro	o (mV)	V 100	tek	Anbor	- P2.	∀	-toote	P	10- W		ek
botek	Anbot	Continued a	ageing: v	oltage d	rop after	50th alt.	100th cy	cle	Anbote	PUL	N/A
Pu-Potek	AU	Max. allowe	10-	, -	Vo.	Anbore	ok Die	botek	Anbote	P.C.	
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	o (mV)	anbor-	Vi.	*6\	oboten	bu		100	ek	nbore	b11.
er o bup	rek	anbotek	PU	,01°	P//,	ek	7Upolok	2000	atek.	Anborek	Puy
Supplement	on let	rmotics: -0	ek-	AUPOLO.	AM	*ek	abotel	ps.	00	h.	¥-





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Clause	Requirement + Test	Result - Remark	Verdict
ak Anb	ANNEX 5: IEC 62031:2018	otek Anbotek Ancotek	Anbodan
-ak	Potek Pupo, W. Wek Vibotes, Will	sek spotek Anbor	h by.
4	GENERAL REQUIREMENTS		_ bz
4.2	Classification	Anbor Anborek Anb	_
Anbore	Built-in module:	Yes □ No ⊠	_
Anbore	Independent module:	Yes ☐ No ⊠	_
ik Aupo	Integral module:	Yes ⊠ No □	_
4.6	Independent modules comply with requirements in IEC 60598-1:2014/AMD1:2017	nbotek Anbotek Ambotel	PAR
4.8	Modules with integrated controlgear providing SELV comply with requirements according to IEC 61347-1:2015/AMD1:2017 clause L.5 to L.11.	(see Annex 1)	upotek
Y Vupo	tek Anbotek Anbotes Anbotek Anbotel	Anbotek Anbotek	Anbors
5	GENERAL TEST REQUIREMENTS		P
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	ek Pan
bořek	General conditions for tests in Annex A	(see Annex A)	N/A
Anbotek	Anborek Anborek Anborek Anborek	Anbotek Anboten Ar	hotek
6	MARKING		200fe
6.2	Contents of marking for built-in and for independe	nt LED modules	N/A
re/r	a) mark of origin	be rek abotek Anbore	PART
upo.	b) model number, type reference	Anbo. Anborek Anbor	P
Anbor.	c1) constant voltage module; rated supply voltage and supply frequency	Anbotek Anbotek An	poter P
Anbore	c2) constant current module; rated supply current and supply frequency	ek Anbotek Anbotek	N/A
tek Anb	d) rated power	Jotek Anbo Lak abotek	Pupe
botek	e) indication of connections, wiring diagram	upotek Aupor Aupor	P
anborek	f) value of $t_{\rm C}$ and place on the module	anbotek Anbote Am	N/A
hotek	g) Ethr if required	Potek Pupote, Mu	N/A

IEC 60598-2-4

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h) symbol for built-in modules

i) heat transfer temperature t_dj) power for heat-conduction P_d

k) working voltage for insulation





N/A N/A

N/A



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	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Arra	k botek Anbo	Arra ok hotel	Vupo.
6.3 Anbo	Location of marking for built-in LED modules	otek Anbor An hotek	N/A
jotek Ani	- marking of a) and b) in 6.2 on the modules	abotek Anbotes And	N/A
Anbotek ok	- marking of other applicable items in 6.2 on the modules or in data sheet, leaflet or website	Anbotek Anbotes Anu	N/A
6.4	Location of marking for independent LED modules	Anbore K An-	N/A
Anbore	- marking of a), b), c) and f) in 6.2 on the modules	Anbore And otek	N/A
k Aupor	- marking of other applicable items in 6.2 on the modules or in data sheet, leaflet or website	Jek Anbotek Anbotek	N/A
6.5	Marking of integral LED modules	inpose K Posek Pubose	P Anh
nbotek	- information in 6.2 a) to g) in data sheet, leaflet or website	Anbotek Anbotek Anb	otek P I
6.6	Durable and legibility of marking	hotek Anbote	Pek
Anbore	- marking on the LED module legible after test with water	lek Anbotek Anbotek	Anborel Anborel
tek Anb	- marking not on the LED module legible	hotek Anbore And	Page

7	TERMINALS		Ve. Vi
7.1	Integral terminals	Aupo, W. Potek W.	N/A
Anbore	Screw terminals comply with section 14 of IEC 60598-1	(see Annex 3)	N/A
yek p	Screwless terminals comply with section 15 of IEC 60598-1	(see Annex 4)	N/A
7.2	Terminals other than integral terminals	Anbotek Anbo. Ak ho	N/A 📈
abotek	Separately approved; component list	(see Annex 2)	N/A
abotel	Ratings suit the conditions	abotek Anbote Ar	N/A
Anbr	Satisfy additional relevant requirements of this standard	ok Anbotek Anbotek	N/A

8 (9)	EARTHING	ik — Ant
- (9.1)	Provisions for protective earthing	N/A
Aupoten	Terminal complying with clause 8	N/A
Anbote	Locked against loosening and not possible to loosen by hand	N/A
otek Aup	Not possible to loosen clamping means unintentionally on screwless terminals	N/A

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-botek	IEC 60598-2-4	spotek Anbore An	rek
Clause	Requirement + Test	Result - Remark	Verdict
K 700,	Fouthing its respect of fixing the Ambox	ek botek Anboten	Anto A
otek An	Earthing via means of fixing Earthing terminal only used for the earthing of the	ore Antorek Anborek	N/A N/A
You	control gear	ing ok potek Aupo,	P
	All parts of material minimizing the danger of electrolytic corrosion	Anbotek Anbotek Anb	N/A
abotek	Made of brass or equivalent material	r upotek Aupore	N/A
, por	Contact surface bare metal	rek spotek Aupote.	N/A
-K Pri	Test according 7.2.3 of IEC 60598-1	ak hotek Anboten	N/A
(9.2)	Provision for functional earthing	inbote Ambotel	N/A
nbote	Comply with clause 8 and 9.1	Anbore And And Anb	N/A
Anbotek	Functional earth insulated from live parts by double or reinforced insulation	Anbotek Anbotek A	N/A
· (9.3)	Lamp controlgear with conductors for protective e circuit board	arthing by tracks on printed	N/A
potek And	Test with a current of 25 A between earthing terminal and each of the accessible metal parts; measured resistance (Ω) at \geq 10 A according 7.2.3 of IEC 60598-1: < 0,5 Ω	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N/A
(9.4)	Earthing of built-in lamp controlgear	Arm John Anbotek Ar	N/A
Anbotel	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1	ek Anbotek Anbotek	N/A
ek Aupr	Earthing terminal only for earthing the built-in controlgear	ootek Anbotek Anbotek	N/A
(9.5)	Earthing via independent controlgear	Anbore Anto	N/A
(9.5.1)	Earth connection to other equipment	Anbotek Anso tek	N/A
Anbotek	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent	Anborek Anborek	N/A
anbo	Protective earthing wires in line with 5.3.1.1 and clause 7	otek Anbotek Anbotek	N/A
(9.5.2)	Earthing of the lamp compartments powered via the in	dependent lamp controlgear	» N
Anbotek Anbotek	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal and each of the accessible metal parts at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω	Anbotek Anbotek Antotek Antotek	N/A
Anbo	Output earthing terminal marked as in 7.1 t) of IEC 61347-1	otek Anbotek Anbotek	N/A







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Arr. hotek	Anbotek Anbo	IEC 60598-2-4	Anbotek Anbotek	Aupo
Clause	Requirement + Test	Anborek Anbors	Result - Remark	Verdict

- (10.1) Controlgear protected against accidental contact with live parts - (A2) Voltage measured with 50 kΩ (see Annex A) P - (A3) Voltage > 35 V peak or > 60 V d.c., or protective (see Annex A) N/A impendance device - (10.1) Lacquer or enamel not used for protection or insulation Adequate mechanical strength on parts providing protection - (10.2) Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V N/A - (10.3) Controlgear providing SELV - (10.3) Controlgear providing SELV - (10.3) Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts SELV outputs separated from earth by at least basic insulation ELV conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c.; No lo	9 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT V	WITH LIVE PARTS	Pur P
- (A3) Voltage > 35 V peak or > 60 V d.c. or protective impendance device - (10.1) Lacquer or enamel not used for protection or insulation Adequate mechanical strength on parts providing protection - (10.2) Capacitors > 0.5 μF; voltage after 1 min (V); < 50 V - (10.3) Controlgear providing SELV N/A Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts SELV outputs a separated from earth by at least basic insulation ELV conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. N/A If output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. N/A One conductive part is insulated if output voltage or current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	- (10.1)		Anbotek Anbotek Anbot	otek P Am
impendance device - (10.1) Lacquer or enamel not used for protection or insulation Adequate mechanical strength on parts providing protection - (10.2) Capacitors > 0.5 μF: voltage after 1 min (V): < 50 V - (10.3) Controlgear providing SELV N/A Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c. and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	- (A2)	Voltage measured with 50 kΩ	(see Annex A)	P
insulation Adequate mechanical strength on parts providing protection - (10.2) Capacitors > 0,5 μF; voltage after 1 min (V); < 50 V - (10.3) Controlgear providing SELV N/A Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c. and touch current does not exceed 0,7 mA (peak) or 2 m A d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	- (A3)		(see Annex A)	N/A
protection - (10.2) Capacitors > 0,5 µF: voltage after 1 min (V): < 50 V	- (10.1)	AND	hotek Anbotek Anbotek	P _{ipot}
(10.3) Controlgear providing SELV Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 N/A -(10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. No load output ≤ 35 V peak or ≤ 60 V d.c. and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Anbotek		Anbotek Anbotek Anbo	Nek P
Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 N/A Coupput voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage = 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	- (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V	Anbotek Ambotek	N/A
parts by double or reinforced insulation in SELV controlgear No connection between output circuit and the body or protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 N/A - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	- (10.3)	Controlgear providing SELV	ok hotek Anbotek	N/A
protective earthing circuit No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 N/A - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	cotek Vu	parts by double or reinforced insulation in SELV	botek Anbotek Anbotek	N/A
and the body or protective earthing circuit through other conductive parts SELV outputs separated from earth by at least basic insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 N/A - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	inpo,		Anbotek Anbotek Anbo	N/A
insulation ELV conductive parts insulated as live parts N/A Tests according Annex L of IEC 61347-1 - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Anbotek Anbotek	and the body or protective earthing circuit through	ak Anbotek Anbotek	N/A
Tests according Annex L of IEC 61347-1 - (10.4) Accessible conductive parts in SELV circuits P Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	stek Ant		potek Anbotek Anbotek	N/A
$- (10.4) \qquad \text{Accessible conductive parts in SELV circuits} \qquad \qquad P \\ \\ & \text{Output voltage under load} \leq 25 \text{ V r.m.s. or } \leq 60 \text{ V d.c.} \\ \\ & \text{If output voltage} > 25 \text{ V r.m.s. or } > 60 \text{ V d.c.}; \\ \\ & \text{No load output} \leq 35 \text{ V peak or } \leq 60 \text{ V d.c and touch current does not exceed } 0,7 \text{ mA (peak)} \\ \\ & \text{or } 2 \text{ mA d.c.} \\ \\ & \text{One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage } 500 \text{ V} \\ \\ & \text{Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor} \\ \\ & \text{P} \\ \\ & \text{N/A} \\ \\ \\ \\ & \text{N/A} \\ \\ \\ \\ & \text{N/A} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	hotes	ELV conductive parts insulated as live parts	Anbores Ans otek anbo	N/A
Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c. If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c. One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Anborer	Tests according Annex L of IEC 61347-1	Anbore. And otek on	N/A
If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c	- (10.4)	Accessible conductive parts in SELV circuits	Anboten Anbotek	anboP ^k
No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c	Anbote	Output voltage under load ≤ 25 V r.m.s. or ≤ 60 V d.c.	ek Anbotek Anbo	N/A
current exceeding the values above and withstand test voltage 500 V Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	nbotek Anb	No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak)	Anbotek Anbotek Anbotek	N/A
appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Anbotek Anbotek	current exceeding the values above and withstand	Anbotek Anbotek An	N/A
Y1 or Y2 capacitors comply with IEC 60384-14 N/A	rek Aup	appropriate and at least two resistors or two Y2	otek Anbotek Anbotek	N/A
	DO F	Y1 or Y2 capacitors comply with IEC 60384-14	inboa An hotek Anbote	N/A

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	IEC 60598	8-2-4			
quirement + Test	Labotek	Pupor	Result - Remark	Anbotek	Verdict
sistors comply with test (a) i	n 14.1 of	Auporo	otek Nupotek	Arbotek	N/A
	quirement + Test	tok spole to	Motel Anbore Mark Anbore	quirement + Test Result - Remark	quirement + Test Result - Remark

10 (11)	MOISTURE RESISTANCE AND INSULATION		-ak	
Anbotek	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		anbotek	
sk Aupo,	For basic insulation \geq 2 M Ω	More than 100 MΩ	Phote	
otek Ar	For double or reinforced insulation \geq 4 M Ω :	sbotek Anbotes And	N/A	
Anbotek	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	Anbotek Anbotek Anb	hek P	

11 (11)	MOISTURE RESISTANCE AND INSULATION		anbotek
otek b	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		PAnbo
iupo _{le}	For basic insulation $\geq 2 \ \text{M}\Omega$:	Anbore Anborek Anbo	N/A
-(11.1)	For double or reinforced insulation $\geq 4 \text{ M}\Omega$:	100 ΜΩ	bote P
Anbore	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	ek Anbotek Anbotek	N/A

11 (12)	ELECTRIC STRENGTH		6K - 4
Anbotek	Immediately after clause 11 electric strength test for 1 min	Anbotek Anbotek Anbo	potek P
Aupoter	Basic insulation for SELV, test voltage 500 V	Anbores Anb stek	nboP ^k
Anbott	Working voltage ≤ 50 V, test voltage 500 V	k Anbotek Anbo	Potek
iek ant	Working voltage > 50 V ≤ 1000 V, test voltage (V):	otek Anbotek Anbo	N/A
otek	Basic insulation, 2U + 1000 V	notek Anbotek Anbo	N/A
in siek	Supplementary insulation, 2U + 1000 V	Ann otek Anbotek Anbo.	N/A
Anbo	Double or reinforced insulation, 4U + 2000 V	Anto stek anbotek Ant	N/A
Aupo	No flashover or breakdown	Anbo tek abotek	anbole P
ek Anb	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	otek Anbotek Anbotek	N/A







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Dipole.	IEC 60598-2-4	Ambore Am	abotek
Clause	Requirement + Test	Result - Remark	Verdict
12 (4.4)	FAULT CONDITIONS	A hote	Ville
12 (14)	240. VU. SK 700. W.	rk hour burn	Anb
(14.1)	When operated under fault conditions the controlgear:	upoter Ann stek Ambote	N/A
hotek	- does not emit flames or molten material	Pupoter Vupo Ver	otel P
abotek	- does not produce flammable gases	antotek Anbor Ar	not PR
k. botek	- protection against accidental contact not impaired	Anborek Anbore	P.V
Anbor	Thermally protected controlgear does not exceed the marked temperature value	itek Anbotek Anboten	N/A
hbotek Anh	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	P AI
(14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	ibon P Anbotek
(14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	N/A
(14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
(14.5)	Short-circuit across electrolytic capacitors	(see appended table)	N/A
Ann	Short-circuit or interruption of SPDs	(see appended table)	N/A
(14.6)	After the tests has been carried out on three samples:	Antone Kek	Aupo,
Aupo	The insulation resistance \geq 1 M Ω	ek Anbo ek abotek	PPO
Sk Aup	No flammable gases	potek Aupon ok Potek	Pan
ootek P	No accessible parts have become live	abotek Anbote K had	e ^k P
Anbotek	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	Anborek Anborek An	N/A
(14.7)	Relevant fault condition tests with high-power a.c. supply and in turn to a d.c. supply	Anbotek Anbotek	_
12.2	Overpower condition	tek anbotek Anbotek	Р
Lak Pr	Module withstands overpower condition >15 min.	tek abotek Anboten	P
inbotek A	Module with automatic protective device or power limiter, test performed 15 min. at limit.	Anbotek Anbotek Anbot	N/A
Anbotek	No fire, smoke or flammable gas is produced	Anbotek Anbote An	,,o [†] P [*]
Anbotek	Molten material does not ignite tissue paper, spread below the module	k Anbotek Anbote	Pre







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Vipo,	And Andrew Andrew	Aupo, A. Cotek Au	ote.
Arboten	IEC 60598-2-4	Arbotek Anbo	abotek
Clause	Requirement + Test	Result - Remark	Verdict
bir.	ok hoter And	Arr Hotel	PUDDO
14	CONSTRUCTION		N/A
	Wood, cotton, silk, paper and similar fibrous material not used as insulation	Inbotek Anbote Anbote	N/A
anbor	Art shoter And	Vupor by	ofer
15 (16)	CREEPAGE DISTANCES AND CLEARANCES		shotek
- (16.1)	General Ambarek Ambarek	k upotek Anbo,	10010K
ik Anbot	Creepage distances and clearances according to 16.2 and 16.3	otek Anbotek Anbotek	P Anbot
otek An	Controlgears providing SELV comply with additional requirements in Annex L	nbotek Anbotek Anbotel	N/A
	Insulating lining of metallic enclosures	And otek Anbotek Anb	Р
Anbotek	Controlgear protected against pollution comply with Annex P	Anbotek Anbotek A	nbotek
- (16.2)	Creepage distances	otek Anbotek Anbo	Post
- (16.2.2)	Minimum creepage distances for working voltages	otek anbotek Anbo	P
tek	Creepage distances according to Table 7	(see appended table)	P P
- (16.2.3)	Creepage distances for working voltages with frequen	cies above 30 kHz	N/A
Aupor	Creepage distances according to Table 8	(see appended table)	N/A
- (16.3)	Clearances	Anbo. All botek	Anbore
- (16.3.2)	Clearances for working voltages	tek Anbors An	N.Boye
rek Anb	Clearances distances according to Table 9	(see appended table)	Panb
- (16.3.3)	Clearances for ignition voltages and working voltages	with higher frequencies	N/A

16 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS		
Anbotek	Cl. 17 refer to Cl. 17 of IEC 61347-1 which refer to Cl. 4.11 and 4.12 of IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	_	
(4.11)	Electrical connections	N/A	
(4.11.1)	Contact pressure	N/A	
(4.11.2)	Screws:	N/A	
tek .	- self-tapping screws	N/A	
20.	- thread-cutting screws	N/A	





N/A

N/A

Clearances distances for basic or supplementary

Clearances distances for reinforced insulation

insulation according to Table 10

according to Table 11



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rupoter.	IEC 60598-2-4	Anbores And	-botek
Clause	Requirement + Test	Result - Remark	Verdict
(4.44.0)	otek Anbo tek Anboek Anbo	ok hotok Anboten	AMB
(4.11.3)	Screw locking:	bote And Anbotek	N/A
oter p	- spring washer	Anboten Anbo	N/A
upotek	- rivets	Ambotek Ambo, A.	N/A
(4.11.4)	Material of current-carrying parts	hotek Anbore An	P
(4.11.5)	No contact to wood or mounting surface	Anbotek Anboten	P P
(4.11.6)	Electro-mechanical contact systems	An otek Anbotek	N/A
(4.12)	Mechanical connections and glands	poter And tek anbotek	N/A
(4.12.1)	Screws not made of soft metal	anbotek Anbo tek abote	N/A
nbotek	Screws of insulating material	Vupotek Vupo, Vk V	N/A
abotek	Torque test: torque (Nm); part:	abotek Anbote An	N/A
hotek	Torque test: torque (Nm); part:	k hotek Anbore	N/A
bu.	Torque test: torque (Nm); part:	k knotek Anbotek	N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal	der Andotek	N/A
(4.12.4)	Locked connections:	Inbotek Anbu tek abotel	N/A
botek	- fixed arms; torque (Nm):	upotek Anto, ak ab	N/A
abotek	- lampholder; torque (Nm):	nbotek Anbore An-	N/A
Pi.	- push-button switches; torque 0,8 Nm	s shotek Anhotes A	N/A
(4.12.5)	Screwed glands; force (Nm)	ak hotek Anbatek	N/A
(Toolonea gianta, ioroo (iiii) iiiiiiiiiiiiiiiiiiiiiiiiiiiiii	e. And otek Aupotek	Pupo.
17 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		Pant
- (18.1)	Ball-pressure test:	See Test Table 18 (18.1)	e [∦] P
- (18.3)	Glow-wire test (650°C):	See Test Table 18 (18.3)	note ^N P
- (18.4)	Needle-flame test (10 s)	See Test Table 18 (18.4)	N/A
- (18.5)	Proof tracking test	See Test Table 18 (18.5)	N/A
1	otek Anborek Anbo Air botek Anbo	And otek Anborek	Pupo.
18	RESISTANCE TO CORROSION		P.nb
otek l	- test according 4.18.1 of IEC 60598-1	unbotek Anbo sek shot	№ Р р
nbotek	- adequate varnish on the outer surface	upotek Anbors Am	ote ^K P
-otek	Vupoter Mungar	Par Aupoter An	Nor
20	HEAT MANAGEMENT		Vupo -
20.1	General	Ann stek subotek	Vupo.
w And	Fulfil clause 20 if replaceable LED module and when heat conducting thermal interface is needed.	cotek Anbotek Anbotek	₽ ₀ /o

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Arr. potek	IEC 60598-2-4		
Clause	Requirement + Test	Result - Remark	Verdict
Pure	ak hotek Anbo his atek anbor	And ok hotek	AUPO.
20.2	Thermal interface material	potek Anbore Am notek	Panbot
potek Ar	Thermal interface material delivered with the module if necessary	inbotek Anbotek Anbote	N/A
20.3	Heat protection	Anbor Anb	N/A
Aupotek	Not impair safety when operated under poor heat- conduction conditions according Annex D	Anbotek Anbotek	N/A

22	PHOTOBIOLOGICAL SAFETY	- 10
22.1	UV radiation	N/A
And	Luminous radiation not exceed 2mW/klm	N/A
22.2	Blue light hazard	upor P
Vupo.	Assessed according to IEC TR 62778 RG0	AnbPie
22.3	Infrared radiation	N/A
otek An	Requirements for infrared radiation when required	N/A

Α	ANNEX A - TESTS	 			6)-	botek
Anbotek	All tests performed in accordiven in Annex H of IEC 61		tek	Anbotek	Anbotek	N/A





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Attachment No. 1

	IEC TR 62778:2014		
Clause	Requirement + Test	Result – Remark	Verdict
5/c	Spectrum, colour temperature, and blue light hazard	otek Anbotek Anbo	P Pr
5.1	Calculation of blue light hazard quantities and photometric quantities from emission spectra	Vupotek Vupotek Vu	Anbotek
5.2 Anbotek	Luminance and illuminance regimes that give rise to tmax values below 100s	k Anbotek Anbotek	An President
7	MEASUREMENT INFORMATION FLOW		ek P not
7.1 pm	Basic flow	abotek Anbote. Anu	ootek P
otek	'Law of conservation of luminance' applied	Anbotek Anbote An	,hoteP
unbotek	Use of only true luminance/radiance values	Anbotek Anbote	Bek
Anbotek Anboti	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component	otek Anbotek Anbotek	P _{Anbote}
otek Yu.	In case E _{thr} value for RG2 was established the peak value was derived from angular light distribution	upotek Vun	otek P I
7.2	Conditions for the radiance measurement		Pek Pek
Anbotek	Standard condition applied (200mm distance, 0,011rad field of view)	tek Anbotek Anbotek	Phote
Anb	Non-standard condition applied	notek Anbotek Anbo	N/A
7.3	Special cases (I): Replacement by a lamp or LED mode	ule of another type	N/A
boiek	Light source is a white light source	Anbotek Anbotek	N/A
abotek	Evaluation done based on highest luminance	Anbotek Anbotes	N/A
Anborel	Evaluation done based on CCT value	ek nobotek Anbote	N/A
7.4 _{Amb}	Special cases (II): Arrays and clusters of primary light s	sources	N/A
rek A	LED package is evaluated as:	⊠RG0 unlimited ☐ RG1 unlimited	nbotek P
to tek	E _{thr} of LED package applies to array	Ant Anbotek	N/A
3	RISK GROUP CLASSIFICATION	I to the second	Anbore
bu.	Risk group achieved:	sek abotek Anbotes	Panbo
Press	Risk Group 0 unlimited	ok wotek Aupo	P





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	IEC TR 62778:2014		
Clause	Requirement + Test	Result – Remark	Verdict
5 Anbox	Spectrum, colour temperature, and blue light hazard	tek Anbourtek	Pupore
5.1 And	Calculation of blue light hazard quantities and photometric quantities from emission spectra	potek Anbotek Anbo	Potek P Pup
5.2	Luminance and illuminance regimes that give rise to tmax values below 100s	Anbotek Anbotek An	Anbot P
Pur Potek	Risk Group 1 unlimited	Anbotek Anbotek	N/A
Aupo Aupo	- E _{thr}	botek Anbotek Anbote	N/A

Risk Group Number	Risk Group Name	Corresponding t _{max} range (s)	Blue light hazard L _B (W/m².sr)
RG0 Model	Exempt	>10000	<100
RG1	Low Risk	100-10000	100-10000
RG2	Moderate Risk	0.25-100	10000-4000000
RG3	High Risk	<0.25	>4000000

	li li	EC TR 6277	8:2014				
Clause	Requirement + Test	anbotek	Aupo	Result – Remai	rk	Anbore	Verdict
TABLE	SPECTRORADIOMETRIC MEAS	UREMENT					PART
Tested mo	odel number	Aupote	t- P	H60	06A	Ant	oten A
Tested vo	ltage	tek anb	otek v	230VAC for LE	D powe	er suppl	y ^{nboro}
Tested cu	rrent	lootek P	nbore	0.32	27A	otek	Anbo
Tested fre	equency	Popotek:	Aupo	stek Anbo 50	Hz	'upote	k Wpo
Ambient to	emperature	Anbore	Ano	24.	6°C	Aupo.	otek Ar
Measuren	nent distance	Aup.	tek P	Anbotek 100	mm	And	abotek
Source siz	ze	Pur Pur		Non-small source	e ^{nbo}	Small s	ource
Field of vi	ew	bo, b	nboter] 100 mrad⊠11	mrad[] 1.7 n	nrad _{Ambotek}
Blue light	hazard radiance (L _B)	PUD POLEH	Anbo	2.78e+01	W/(m²•	esr)	Anboy.
Blue light	hazard irradiance (E _B)	Am	p.r	botel And	//m²	anbo	stek Aul





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IEC TR 62778:2014							
Clause	Requirement + Test	*ek	nbotek	Result – Remark	hotek	Verdict	
Luminan	ce (L)	1/9/0-1	Anbo	cd/m ²	Ar. abotek	Anbote	
Illuminan	ce (E _{thr})	, obotek	PL	IX	Anbotek	Anb	
Calculate	e distance (d _{min})	Albote	4	Amborembore	ik Aupo	New b	

Measurement Uncertainty Statement:

EB, Urel=2.52% (k=2)

LB, Urel=2.84% (k=2)

LR, Urel=2.84% (k=2)





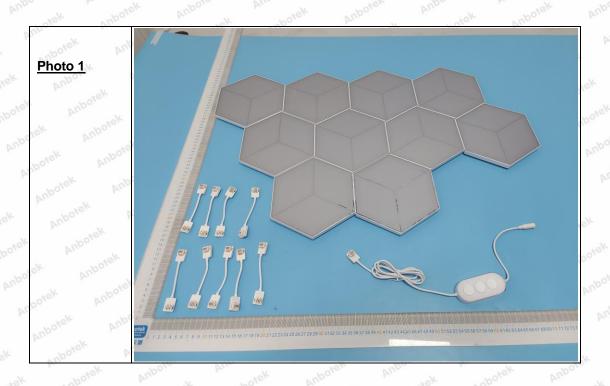
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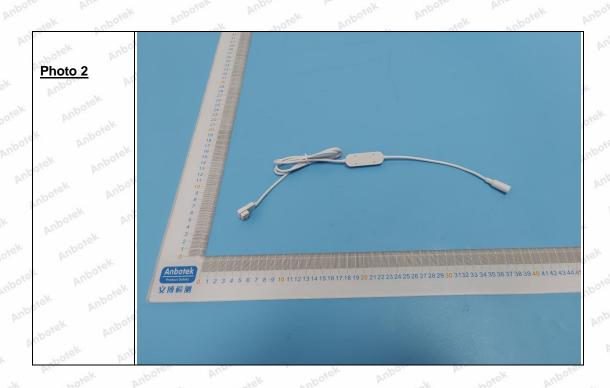
Attachment No. 2

4.2	APPLICA	APPLICATION OF LIMITS (Test summary)						
SK DL	Specific	absorption rate (SAR)	in stek out	rek	Aupo.	hotek	- Anb	
a) k	400	5 clause 4.3.1 nce voltage mains terminals 30 MHz	Anbotek A	Anbotek Anbotek Anbo			otek	
b) Anbor	Radiated	5 clause 4.4 electromagnetic disturbanc – 30 MHz	rek es hootek Anbotek	*) Anbo	botek	Anbotek Anbotek	Anbotel Anbotel	
c)	Radiated	CISPR 15 clause 4.4.2 Radiated electromagnetic disturbances 30 MHz – 300 MHz				k Anboren	P ^{nb}	
*) Anbotek	 ☑ See separate Test Report for measurements of a), b) and c) above ☐ Only measurement of d) below. See measurement results below. In this case this test report does not show compliance with IEC 62493. 						anbotek Anbotek	
k Anb	Induced	current density	loo, M. Mol	ek.	Anbore	Ann	Poo	
d)	7/1	Induced current density 20 kHz – 10 MHz See measurement results below					P	
4.2.d	INDUCE	D CURRENT DENSITY	1667	1.034			_	
Anbore	Power su	ipply system utilised:	ok botek	Anbore	Pu-	otek o	upotek	
Anbore	Voltage		An Briek	AC230\	J. P.	up, sek	nbotek	
anb	Frequenc	су	por i of	50/60H	- 100°			
tek D	Environm	nental conditions:	Auporen Aug	orek	Anborek	Aupo,		
a ek	Tempera	ture	Aupoter Put	25°C	Vupo	'A - by		
io ^k	- 7	Aupon Hotek	1465	52% R.	H. Nobo	lek Aupo	- N	
Aupo,	EuT oper	ration mode:	k Anboren	Aupo	*ek	botek A	10010	
Aupo	⊠ Norm	al operation	otek Anbotek	AUD	o, b,	botek	Pupolen	
Anbo	Other	operation:	rek abote	F P	nbore	hotek hotek	hup of	
4.2.d	MEASUF	MEASUREMENT RESULTS						
potek	Measurir	ng with "Van der Hoofden" te	est head	abotek	Aupor	K 500	ek _	
Location	of EuT	Measuring distance	Result (F)		Limit	(F)	Verdict	
Front of E	uT Anbote	50 cm	k Aupo,	br.	0,8	5 ^{rec} Ar	N/A	
Rear of E	uT odna	50 cm	otek Pupoter	bier	0,8	5nbotek	N/A	
Side of E	uT .v.	Side of EuT 50 cm		P.5	0,8	5 wotek	N/A	



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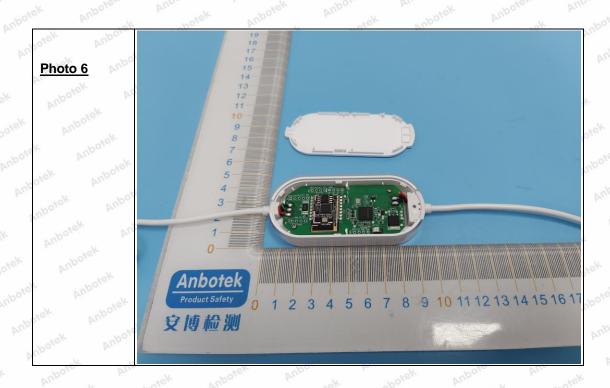






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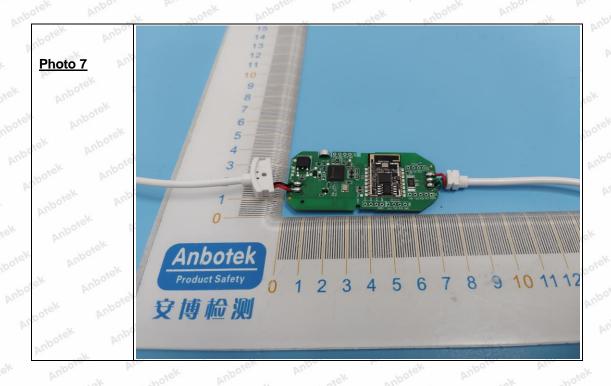


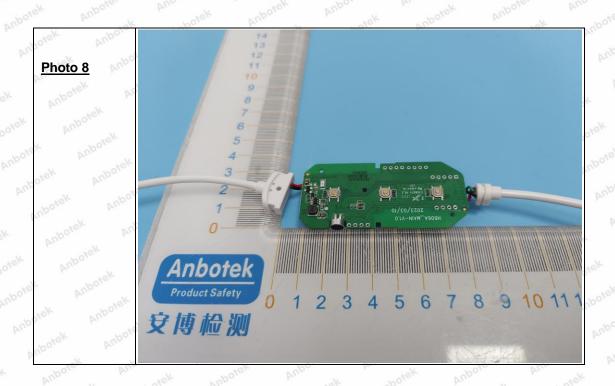






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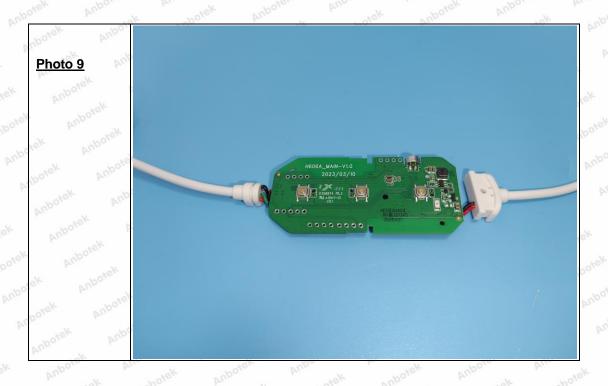


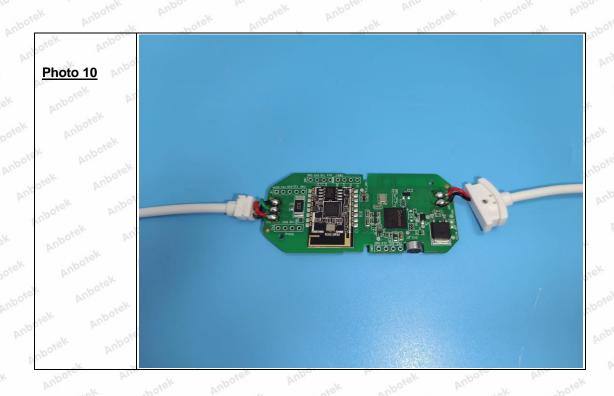






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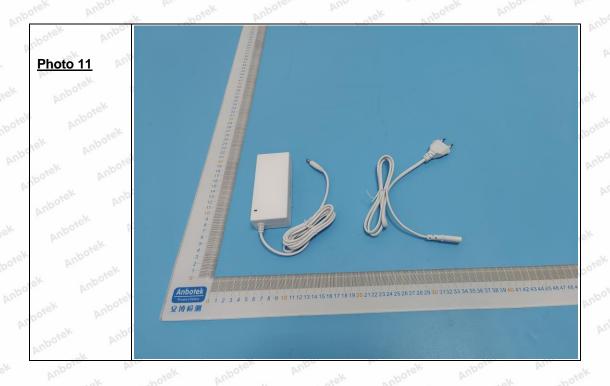






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Photo documentation





*** End of report ***

Shenzhen Anbotek Compliance Laboratory Limited





