

Report No.: 18240SC10003201

Test Report

: FOSHAN KAICHENG LIGHTING CO., LTD Client Name

NO.16,XINGYE WEST ROAD, SHISHAN TOWN, NANHAI DISTRICT, FOSHAN Address

Product Name Portable work lamp

Feb. 26, 2021 Date





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TEST REPORT IEC 60598-2-4

Luminaires

Part 2: Particular requirements
Section Four - Portable general purpose luminaires

Report

Report reference No...... 18240SC10003201

Compiled by Owen Luo

Approved by...... Jeff Zhu

Date of issue...... Feb. 26, 2021

Contents...... 41 pages report

Testing laboratory

Name...... Shenzhen Anbotek Compliance Laboratory Limited

Community, Hangcheng Street, Bao'an District, Shenzhen,

Guangdong, China.518128

Applicant

Name...... FOSHAN KAICHENG LIGHTING CO., LTD

Address NO.16,XINGYE WEST ROAD, SHISHAN TOWN, NANHAI

DISTRICT, FOSHAN

Test specification

Standard IEC 60598-2-4:2017 used in conjunction with

IEC 60598-1:2014+A1: 2017

Test procedure N.A.

Non-standard test method.....: N.A.

Test item Description

Product name Portable work lamp

Trademark.....: N.A.

Model and/or type reference: TG01-A, TG01-B, TG01-C, TG02-A, TG02-B, TG02-C, TG02-D,

TG03-E, TG03-A, TG03-B, TG03-C, TG03-D

Manufacturer.....: same as applicant

Address: same as applicant Factory same as applicant

Address same as applicant

Rating(s)....: 3.7VDC, 100W





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Test item particulars

Classification of installation and use...... Portable luminaire for indoor use

Test case verdicts

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

Testing

Date(s) of performance of tests...... Jan. 24, 2021 to Feb. 04, 2021

General remarks

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

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

Clause numbers between brackets refer to clauses in IEC 60598-1.

"(see remark #)" refers to a remark appended to the report.

"(see Annex #)" refers to an annex appended to the report.

Throughout this report a point is used as the decimal separator.

According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Summary of testing

Tests performed

- EN 60598-1: 2015 +A1: 2018

- EN 60598-2-4: 2018

- EN 62031: 2008+A1: 2013+A2: 2015

The submitted samples were found to comply with the requirement of EN 62493:2015 without testing because they are LED-lightsource technology.

All models have the similar mechanical and electrical construction, main differences among them are size and shape.

The submitted samples were found to comply with the above specification, except for clause 4.24.

List of Attachments

Attachment 1: Test report of EN 62031
Attachment 2: Photo documentation





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Copy of marking plate(s)

Portable work lamp Model No.: TG01-C Rating: 3.7VDC, 100W







IP65

FOSHAN KAICHENG LIGHTING CO., LTD NO.16,XINGYE WEST ROAD, SHISHAN TOWN, NANHAI DISTRICT, FOSHAN

Importer: xxxxxx Address: xxxxxx

Remark: this label is only representative.

Unless otherwise specified, the maximum power model TG01-C was selected as representative models to perform all tests.



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ntek ni	IEC 60598-2-4	VII. POK "POLOK	Aupo.
Clause	Requirement - Test	Result - Remark	Verdict
Aup	Special subore Ann work An	Hotek Vupo, W.	hupo,
4.1 (0)	SCOPE	botek Anbore Ans	ok — 40
4.2 (0.1)	Information for luminaire design considered	Standard Yes	_
4.2 (0.3)	More sections applicable	···Yes ⊠ No □ Yes □ No ⊠	
4.2 (0.0)	More sections applicable	103	700,
4.4 (2)	CLASSIFICATION	otek Anborek Anbore	PU-POS
4.4 (2.2)	Type of protection:	Class III	Pitt.
4.4 (2.3)	Degree of protection:	IP65	
4.4 (2.4)	Portable and handheld luminaire:	Yes	
Anbotek An	Fixed luminaire suitable for normally flammable surfaces:	No Anborek Anborek	_
Anbotek	Fixed luminaire suitable for non-combustible materials only:	No Andrew Andrew	_
4.4 (2.5)	Luminaire for normal use:	Yes	_
botek An	Luminaire for rough service:	No	_
abotek.	Anbotek Anbotek Anbotek	k hotek Anbotek	Aupo,
4.5 (3)	MARKING	ore Ans work Anborek	Aupo.
4.5 (3.2)	Mandatory markings	Anbore Ambor	P Anh
ok -poj	Position of the marking	Anbore And And	otok P
ok bu	Format of symbols/text	Anbore, And	nbote P
4.5 (3.3)	Additional information	k Aupores Aupo	Par
Aupolo	Language of instructions	English	Postel
4.5 (3.3.1)	Combination luminaires	otek Anbotek Anbot	N
4.5 (3.3.2)	Nominal frequency in Hz	Anbotek Anbotek Anbote	N N
4.5 (3.3.3)	Operating temperature	Anti-	N
4.5 (3.3.4)	Symbol or warning notice	Anbotek anbotek	Inpos
4.5 (3.3.5)	Wiring diagram	Anto stek anbotek	Anb N
4.5 (3.3.6)	Special conditions	And sek abotek	Noore
4.5 (3.3.7)	Metal halid lamp luminaire – warning	ukojek Vupo. Vipoje	Nanbe
4.5 (3.3.8)	Limitation for semi-luminaires	Aupotok Aupos Au	otek N b
4.5.(0.0.0)	D. Calk John Ring	Tel Vapore Man	No.

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Par 100	IEC 60598-2-4	D Hallo	100
Clause	Requirement - Test	Result - Remark	Verdict
4.5 (3.3.10)	Suitability for use indoors	sek anbotek Anbotek	P
4.5 (3.3.11)	Luminaires with remote control	ipo, bir apotek Vupo	N
4.5 (3.3.12)	Clip-mounted luminaire - warning	Anboy Ar.	N
4.5 (3.3.13)	Specifications of protective shields	Anboy All shotely	Anboten
4.5 (3.3.14)	Symbol for nature of supply	Anbotek Anbotek	NUD.
4.5 (3.3.15)	Rated current of socket outlet	Augotek Augotek	N
4.5 (3.3.16)	Rough service luminaire	botes And	N be
4.5(3.3.17)	The mounting instructions for luminaires with type X, Y or Z attachments	X	oo ^{tek} P
4.5(3.3.18)	Information of luminaires provided with a PVC non-detachable cable or cord	Anbotek Anbotek	Anborek Anborek
4.5 (3.3.19)	Protective conductor current in instruction if applicable	otek Anbotek Anbotek	N pos
4.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	Anbotek Anbotek Anbo	otek N
4.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non replaceable light sources	Anbotek
Aug	Cautionary symbol	ok Auporek	R/pot
4.5 (3.3.22)	Controllable luminaires, insulation	otek Anbore An	N N N
4.5 (3.4)	Test of marking	Anborek Anbor A	otol P
Vupo.	Test with water	15s with water	,,,,teP
otek Vupo	Test with hexane	15s with hexane	Pok
Anbotek An	Legible after test	k anbotek Anbote	P
Anbotek	Label attached	tek photek Anbore	Р
4.6 (4)	CONSTRUCTION	bo sek abotek Anbote	PU,
4.6.1 (-)	Insulation cables and cords	Anbo sek shotek Ant	N
4.6.2 (-)	Means of fixing wiring	Anbo. A. Abotek	inbote N
4.6.3 (-)	Stability	Anbo, Ar. shotek	Anb P
4.6.4 (-)	Candlestick luminaires with switch	k Vupo, Vr. Votek	Roote
4.6.5 (-)	E5 lampholders	otek Vupose Vun	N _{ant} o
4.6 (4.2)	Components replaceable without difficulty	nbotek Anbore Ans	rok P
4.6 (4.3)	Wireways smooth and free from sharp edges	Anbotek Anbotek Anb	Notela



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tok som	IEC 60598-2-4	All.	Vupo.
Clause	Requirement - Test	Result - Remark	Verdict
4.6 (4.4)	Lampholders	oter Ando botek Anbotek	N N
4.6 (4.4.1)	Integral lampholder	hore Ann	N
4.6 (4.4.2)	Wiring connection	Anuare Ana bolek A	P
4.6 (4.4.3)	Lampholder for end-to-end mounting	Andere And Solek	Anborek
4.6 (4.4.4)*	Positioning	Anbore Ann	NON TO SERVICE
4.6 (4.4.5)	Peak pulse voltage	ek Anbore Anb	Nabol
4.6 (4.4.6)	Centre contact	botek Anbotek Anb	N N
4.6 (4.4.7)*	Rough service luminaires	abotek Anbotek Anbo	atel N
4.6 (4.4.8)	Lamp connectors	Anbotek Anbotek Ar	N
4.6 (4.4.9)	Caps and bases correctly used	and Anborell	N.ek
4.6 (4.5)	Starter holders	ak hotek Anbotek	N N
Anbotek	Starter holder in luminaires other than class II	potek Anbotek Anbotek	N
Antho	Starter holder class II construction	anbotek Anbote Ans	otel N
4.6 (4.6)	Terminal blocks	anbotek Anbotes An	N
odek Aup	Tails	abotek Anbotes	N
anbotek p	Unsecured blocks	tek hotek Anbore	N
4.6 (4.7)	Terminals and supply connections	tek abotek Anborea	N
4.6 (4.7.1)	Contact to metal parts	por Anborek Anbor	N Am
4.6 (4.7.2)	Location stranded wires	Anbors An	N
rek "Upc	8 mm test live conductor	Anbore knowlek	Anborek N
, o, b,	8 mm test earth conductor	Aupore, Washek	Ant N
4.6 (4.7.3)	Terminals for supply conductors	ak Auporen Augustak	Noote
4.6 (4.7.3.1)	Welded connections:	botek Anboien Anbo	N and
Vupose	- stranded or solid conductor	abotek Anbotes Anbo	N Yor
k Aupoto.	- spot welding	An- botek Anbotek Ant	N
otek Anbo	- welding between wires	Anbotek Anbotek	N.v.
abotek Ar	- Type Z attachment	k hotek Anbotek	Amb N
abotek	- mechanical test according to 15.8.2	And wotek Anbotek	N
hotek	- electrical test according to 15.9	total Mills	NAND
Anbolek	- heat test according to 15.9.2.3 and 15.9.2.4	Anbotek Anbotek Anb	N I
4.6 (4.7.4)	Terminals other than supply connection	notek anbores	Ny

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potek anb	IEC 60598-2-4	and	Ann
Clause	Requirement - Test	Result - Remark	Verdict
4.6 (4.7.5)	Heat-resistant wiring/sleeves	ree Anbotek Anbotek	N N
4.6 (4.7.6)	Multi-pole plug	Trote Anbo	N
ek bojel	- test at 30 N	Anbote And Motek At	N N
4.6 (4.8)	Switches:	Anbote: Anb	Anbolek N
POL YOR	- adequate rating	Aupoter Aup	NON THE
August V	- adequate fixing	lek Anbotes Anb	Napol
Aupolo	- polarized supply	botek Anboten Anbo	N N
4.6 (4.9)	Insulating lining and sleeves	nbotek Anboten Anb	N N
4.6 (4.9.1)	Retainment	anbotek Anbotek Ar	N
ipotek Vupo	Method of fixing	abotek Anbotek	
4.6 (4.9.2)	Insulated linings and sleeves	ak abotek Anbotek	N
Anbotek	Resistant to a temperature > 20 °C to the wire temperature or	botek Anbotek Anbotek	N Ani
ek Anbotek	a) & c) Insulation resistance and electric strength	Anbotek Anbotek An	orek N
botek Anbo	b) Ageing test. Temperature (°C)	Pur Potek Vupotek	Ande N.
4.6 (4.10)	Insulation of Class II luminaires	Am Anbotek	N ⁿ A
4.6 (4.10.1)	No contact, mounting surface - accessible metal parts - wiring of basic insulation	botek Anbotek Anbotek	N N
Aupor	Safe installation fixed luminaires	abotek Anbote And	N Notes
W. Willow	Capacitors	Pupoles Vipoles Vi	N
otek Anbo	Interference suppression capacitors according to IEC 60384-14	Anbotek Anbotek	Anbolek Anbolek
4.6 (4.10.2)	Assembly joints:	ek Anbo, ak bolek	Noote
Anbo	- not coincidental	potek Anbor An hote	N N N
Vupe	- no straight access	Aupolek Aupol	otek N
Yupo,	- degree of protection	anbotek Anbote Ant	North
4.6 (4.10.3)	Retainment of insulation:	abotek Anbote	N×
anbotek an	- fixed	ak abotek Anbotes	Amb N atel
Anbotek	- unable to be replaced; luminaire inoperative	otek Anbotek Anbotek	N Amb
And	- sleeves retained in position	Anbotek Anbote An	orek N
Anbo.	- lining in lampholder	Anbotek Anbotes Anti	N/ore
4.6 (4.11)	Electrical connections	hotek Anboie	P.V



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IEC 60598-2-4				
Clause	Requirement - Test	Result - Remark	Verdict	
4.6 (4.11.1)	Contact pressure	otek Anbotek	P Anthol	
4.6 (4.11.2)	Screws:	Anbores Anbo	N P	
1.0 (1.11.2)	- spaced threaded screws	Amborien Ambo	loozek N	
ak ko	- thread-cutting screws	Anbotek Anbo stek	Anborek	
ole. Aur	- earth continuity	Anbotek Anbo	N N	
Vupale. V	- at least two screws	tek Vuposek Vupo	Neiso	
4.6 (4.11.3)	Screw locking:	potek Aupotek Aupo	N N	
Anbote	- spring washer	hotek Anbotek Anbo	well N	
Aupoton.	- rivets	Antotak Antotak An	N	
1.6 (4.11.4)	Material of current-carrying parts	hotek Anborok	Prek	
4.6 (4.11.5)	No contact to wood	k hotek Aupolek	Anbor	
1.6 (4.11.6)	Electro-mechanical contact systems	k knotek Anbotek	N	
1.6 (4.12)	Mechanical connections and glands	nbotel Anbot	P N	
1.6 (4.12.1)	Mechanical stress	Anboten Anb	oles P	
10d 40.	Not made of soft metal	Anboren Anbo	anbot P	
0,0 V.	Screws of insulating material	Anboren Anbo	N of	
Auporto Me	Torque test: torque (Nm); part	Fixed enclosure: 0.4Nm	Papot	
Aupore	Torque test: torque (Nm); part	botek Anbotek Anbo	N N	
Vupo _{to}	Torque test: torque (Nm); part	botek Anbotes Anb	N N	
.6 (4.12.2)	Screw diameter up to 3 mm	potek Aupoten Au	N	
1.6 (4.12.4)	Locked connections:	Potek Vipotek	Anba N	
abotek An	- fixed arms; torque (Nm)	k hotek Anbotek	A ^{mb} N	
abotek	- lampholder; torque (Nm)	Ambotek Ambotek	N	
h. shotek	- push-button switches; torque (Nm):	Dore Ans	N Ant	
1.6 (4.12.5)	Screwed glands; force (N)	Anbore And And	otelle N	
1.6 (4.13)	Mechanical strength	Anbore And Otek	mbote P	
6 (4.13.1)	Impact tests:	Anbores And atek	Anb Pak	
Upo, Vi	- fragile parts; energy (Nm)	Diffuser: 0.35Nm	Poste	
Anbore	- other parts; energy (Nm)	Enclosure: 0.50 Nm	P	
Aupole	1) live parts	botek Anbotek Anbo	P	
Anbole	2) linings	Anbotek Anbotek Anb	N	
sek anbore	3) protection	An. Joseph	mbo. P.	







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mater and	IEC 60598-2-4	tok abole	Vice.
Clause	Requirement - Test	Result - Remark	Verdict
Ann	Moorey Anbor Anthony	otek Anbotek	D.mb0
4.0(.4.40.0)	4) covers	uputek Aupo, by	P P
4.6(4.13.2)	Metal parts enclosing live parts	Antotek Anbore An	N N
4.6 (4.13.3)	Straight test finger	Anbotek Anbote, Ar	P P
4.6 (4.13.4)	Rough service luminaires	betek Anboten	Aug. N
Motor A	a) fixed	Al. hotek Mpotek	_N N
h. Dotok	b) hand-held	Me Augustak Pupotak	Nopo
Vu. Potok	c) delivered with a stand	hpoter And	N N
ek Anbotek	d) for temporary installations and suitable for mounting on a stand	Anbotek Anbotek An	ootek N
4.6 (4.13.6)	Tumbling barrel	And otek Anbotek	N Pubolin
4.6 (4.14)	Suspensions and adjusting devices	Anti-	N
4.6 (4.14.1)	Mechanical load:	tek upotek	N ₁₀₀
Ansoniek	A) four times the weight	Potok Vibo, Vek Propos	N N
Vup	B) torque 2,5 Nm	anbotek Anbore An	otek N
Sy. Vupo.	C) bracket arm; force (N)	anbotek Anbote An	ot N
potek Vupo,	D) load track-mounted luminaires	Aupotek Aupotes	New
Anbotek An	E) clip-mounted luminaires, glass-shelve. Thickness (mm):	ek Anbotek Anbotek	N
Vu.	metal rod. diameter (mm)	Potes, Wash	N Pu
ak Anbotek	Fixed luminaire or independent control gear without fixing devices	Anborek Anborek Ant	otek N
4.6 (4.14.2)	Load to flexible cables	And Anbotek	Anber N.
botek An	Mass (kg):	Ann otek anbotek	_
hotek.	Stress in conductors (N/mm²):	Anbotek Anbotek	N
Pur	Mass (kg) of semi-luminaire	porce Anbourge	_
k hosek	Bending moment (Nm) of semi-luminaire:	Aupoles Aupo W.	o ^{tek} N
4.6 (4.14.3)	Adjusting devices:	Anbotek Anton An	Nefode
Pulos.	- rotating test; number of cycles	Anbolek Antoli	No.
Anboten Ant	- strands broken	ek Anbotek Anbote	Note
Anbotok	- high voltage test	otek Anbotek Anbotes	N
4.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	Anbotek Anbotek Anbote	N N
4.6 (4.14.5)	Guide pulleys	Aupotok Aupo, W.	abotel N



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Clause	Requirement - Test	Result - Remark	Verdict
Clause	Requirement - Test	Result - Remark	verdict
4.6 (4.14.6)	Strain on socket-outlets	took abotek Anboten	N
4.6 (4.15)	Flammable materials:	Anton Antone Anbo	Р
ek subotek	- glow-wire test 650°C	Anbor An	P P
olek rupo,	- spacing ≥ 30 mm	Anbor All dootek	Anbore
bo. sek	- screen withstanding test of 13.3.1	e Anboy Anboyek	NON TON
Vupo, rek	- screen dimensions	pitek Aupon Mun Potek	Napol
Anbo	- no fiercely burning material	upotek Aupon Mu	o ^N P or
Vupo,	- thermal protection	Aupotek Aupote Aug	otell N
Vupo,	- electronic circuits exempted	Anbotek Anbote Ar	N
4.6 (4.15.2)	Luminaires made of thermoplastic materia	al mootek Ambor	Nek
Anbotek An	a) construction	tek abotek Anbote	N N
anbotek	b) temperature sensing control	o tek abotek Anbotes	N
Anbotek	c) surface temperature	Aupo, Pek apolek Vupo,	N ATT
4.6 (4.16)	Luminaires for mounting on normally flam	mable surfaces	ooten N
riek sabot	No lamp control gear	(compliance with Section 12)	Netodala
4.6 (4.16.1)	Lamp control gear spacing:	Aupor Am Potak	Arth N. Ch
Vupo. Fek	- spacing 35 mm	clek Anbore Ant motek	Not
Anbo.	- spacing 10 mm	botek Anbote Ans	× N and
4.6 (4.16.2)	Thermal protection:	nbotek Anbote And	N Notes
k Aupole	- in lamp control gear	Abotek Anboten An	N
otek Vupoz	- external	k abotek Anboten	N _e k
inbotek An	- fixed position	ok hotek Anboten	Anbo N
abotek	- temperature marked lamp control gear	o An hotek Anbotek	N
4.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N Marit
4.6 (4.17)	Drain holes	Anbores Ans Lotek Ant	otel N
rak Project	Clearance at least 5 mm	Anbore, And And	_{inbotel} N
4.6 (4.18)	Resistance to corrosion:	k Anboten Anb	No Mark
4.6 (4.18.1)	- rust-resistance	o'ek Anboten Anbo	N
4.6 (4.18.2)*	- season cracking in copper	notek Anbotek Anbo	N
4.6 (4.18.3)	- corrosion of aluminium	hotek Anbotek Anbote	N N
4.6 (4.19)	Ignitors compatible with ballast	And Anbotek Anbotek	N
4.6 (4.20)*	Rough service vibration	Aria sole hotek	N.



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Clause	Requirement - Test	Result - Remark	Verdict
Jiause	Requirement - Test	Result - Remark	verdict
4.6 (4.21)	Protective shield:	or Ambotek Anbotek	N
4.6 (4.21.1)	Shield fitted	Anbore Anborek Anbo	N
4.6 (4.21.2)	Particles from a shattering lamp not impair safety	Anborek Anborek Ar	N
4.6 (4.21.3)	No direct path	s Anbotek Anbote	Nesk
4.6 (4.21.4)	Impact test on shield	stek Anbotek Anbos	N
Anborok	Glow-wire test on lamp compartment	hotek Anbotek Anbot	N
4.6 (4.22)	Attachments to lamps	hotek Anbotek Anbo	N
4.6 (4.23)	Semi-luminaires comply Class II	Anbotek Anboten An	N
4.6 (4.24)*	UV radiation, metal halide lamps	Anbotek Anbotes	Nek
4.6 (4.24.2)	Retinal blue light hazard	lek Viposes Visa Viek	Noot
Aupo	Luminaires with Ethr	upotek Aupotes Aupotes	N N
Vupo,	a) Fixed luminaires	Aupotek Aupote And	N Yoro
otek Anbo	Distance x m, borderline between RG1 and RG2	Anbotek Anbotek	Anbot N
abotek A	Marking and instruction	Anbotek Anbotek	Nana
apolek.	b) Portable and handheld luminaires	by Wunder Wipoley	N
Anbotek	RG1 exceeded at 200 mm according to IEC/TR 62778	Anbotek Anbotek Anbot	N An
Anbo	Marking	Anbotok Anbose An	New you
Aupotek Aupo	Portable luminaires for children IEC 60598-2-10 and Mains socket outlet nightlights IEC 60598-2-12	ek Anbotek Anbotek	Anbote
Vupo,	RG at 200 mm according to IEC/62778	Potek Pupoter Pup	· N _{pat}
4.6 (4.25)	No sharp point or edges	Anbotek Anbote Ans	otek P
4.6 (4.26)	Short-circuit protection:	Anbotek Anbotek An	_{inbote} N
4.6 (4.26.1)	Uninsulated accessible SELV parts	ek vipotek Vipotek	Aup N
4.6 (4.26.2)	Short-circuit test	otek Anbotek Anboten	N
4.6 (4.26.3)	Test chain according to IEC 61032	Anbotek Anbotek Anbote	N N
4.6 (4.27)	Terminal blocks with integrated screwless according Annex V	earthing contacts tested	Netoda



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Clause	Requirement - Test	Result - Remark	Verdict
Ciause	requirement - Test	Result - Remark	verdict
Anborek	Pull test of terminal fixing (20 N)	stek upotek Anbotek	N
Anbotek	After test, resistance < 0.05Ω	tek Anbotek Anbo	N
anborek	Pull test of mechanical connection (50 N)	Anto dek Anbotek Ar	N
otek Anbo	After test, resistance < 0,05 Ω	Anbotek Anbotek	AnbolN K
motek at	Voltage drop test, resistance < 0,05 Ω	Anbotek anbotek	M
1.6 (4.28)	Fixing of thermal sensing control	lek Anborek	Nopo
Vunn Olek	External to lamp control gear	Dotek Anbo	N N
Y Aug	Plug-in or easily replaceable type	Anbotek Anbo	ootek N
Anto	Adhesive fixing	Anbotek Anbo. Ak	N took
John And	Positioning	Anbotek Anbo.	Nek
Aupoles Au	Temperature (°C)	ak Anbotek Anbo	N
Aupoles	100 cycles between t min and t max	otek anbotek Anbor	N
k Anbotek	Temperature sensing control still in position	Anbotek Anbotek Anbot	ootek N
4.6 (4.29)	Luminaires with non-replaceable light source	Anbotek Anbotek	Anbot P
abotek An	Replacement not possible	k motek Anbotek	₽upo.
abolek	Live part not accessible	-k notek Anbotek	Р
polok	Breaking of the luminaire or its parts	bole Ambot Anbot	N M
k bojek	Removal of parts	Anbores Anbo	of other N
rak hot	Compliance with test probe	Anbore And	Anbote P
Or Dire	Access to live parts	Anbore And Arek	Nek Nek
1.6 (4.30)	Luminaires with non-user replaceable light source	ek Anbotek Anbotek	Noot
nbotek	Protective cover	to. W. Hotek William	N _{Fu}
, spotek	Fixing means	unborn ak motek ant	oren N
lok abole	Cautionary symbol	Anbors K Ans	Netodal
1.6 (4.31)	Insulation between circuits	Vupoter, Vue	Anb Nek
upo, vak	Transformer or control gears	k Aupoles Augs	Nore
Aupore	Insulation between circuits	ptek Anbotes Anco	N
Aupoier	Circuits insulated from LV supply	hotek Anbotek Anbots	, N
Anboros	Insulation provided	motek anbotek Anb	N
sek spore	Controllable luminaires	Villa ok notek	N



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Pup.	IEC 60598-2-4	- whotely probo.	10,
Clause	Requirement - Test	Result - Remark	Verdict
anbotek.	Control terminals	ole Ann botek Anbotek	N
h. abotek	Insulation	Mary An Apotok Anbo	N
ek abolek	Control gear U-OUT	Antone An botek Ar	pore N
4.6 (4.31.1)	SELV circuits	Anbore Ant hotek	Anborek
*6k	Source	Anbore Ans hotek	An Press
Anto, Pak	Insulation between circuits	lek Aupote Aur Potek	Rabo
Anbor	Control gear U-OUT	potek Anbotes Anb	N N
Anboro	Plug and socket outlet	nbotek Anboten Anb	otel N
4.6 (4.31.2)	FELV circuits	Anboiek Anboiek An	N
ootek Anbo	Source	abotek Anborok	N. W
Anbotek Ar	Insulation between circuits	ak botek Anbotek	N
anbotek.	Plug and socket outlet	Anborek Anborek	N
4.6 (4.31.3)	Other circuits	pore k work Aupor	N ⁹⁴⁵
k społek	CI II Anbores Anno tek	Anborse K Anti-	orek N
rek spoj	Equipotential bonding	Anbores And Sofek	Anbot 9K
20, by	All conductive part connected	Pupology Pupo	N'sk
Vupo, ve	Resistance < 0,5 Ω	ek Auporon Auporok	Noot
Anborek	Insulation fault: accessible part cause electric shock	botek Anbotek Anbot	K N Ari
k anbotek	Master/slave applications	Anbo Lek shotek Ant	N
4.6 (4.32)	Overvoltage protective devices	Pupo, Pek Posek	Anbore N
Anbotek An	External to lamp control gear, connected to earth	k Anbotek Anbotek	Anh N
Anbotek	Fixed luminaires connected to a protective earth	totek Anbotek Anbote	N
4.7 (11)	CREEPAGE DISTANCES AND CLEARAN	CES	olek —
4.7 (11.2)	Creepage distances and clearances:	See Table 4.7 (11.2)	Inposek
inbotek An	Working voltage (V)	3.7V===	-07
Anbotelt	Rated pulse voltage (kV)	Tek abotek Anbotek	_
Anbotek	Voltage form	Sinusoidal [$\sqrt{\ }$] (input of power supply)	_
	Anborek Anborek Anborek	Non-sinusoidal [] (input of luminaire)	



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	IEC	C 60598-2-4	
Clause	Requirement - Test	Result - Remark	Verdict
Aupo	atek Anbole And	-k motek Anbor An	10dz 10d
	PTI Anbotek Anbotek	< 600 [√] ≥ 600	€,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ek Anbor	Impulse withstand category (N category II) (Category III Anne	lormal x U)	And

4.8 (7)	PROVISION FOR EARTHING		Ano
4.8 (7.2.1 + 7.2.3)	Accessible metal parts	Class III luminaire	N N
ek Anborek	Metal parts in contact with supporting surface	Anbotek Anbotek An	ootek N
wotek anbo	Resistance < 0,5 Ω	And tek abotek	AnborN .
-otek of	Self-tapping screws used	Aupo esk upotek	MUN
Ann	Thread-forming screws	ek Anbo Lek abotek	Nipole
Aup	Thread-forming screw used in a grove	potek Aupo, ek hot	ek N ant
Aupo	Earth makes contact first	Anbotek Anbote An	otel ^k N
potek Anbo	Terminal blocks with integrated screwless earthing contacts tested according Annex V	Anbotek Anbotek	Anbotek Anbotek
Vupo, V	Built-in control gear	ak Anboten Anbo	Noote
4.8 (7.2.2 + 7.2.3)	Earth continuity in joints, etc.	potek Anbotek Anbot	k N Anb
4.8 (7.2.4)	Locking of clamping means	Anbors And Sofek Ant	Of N
rak rool	Compliance with 4.7.3	Anbore Ann work	AnboteN
Anbotek An	Terminal blocks with integrated screwless earthing contacts tested according Annex V	ok Anbotek Anbotek	Anbotel
4.8 (7.2.5)	Earth terminal integral part of connector socket	potek Anbotek Anbote	N Anb
4.8 (7.2.6)	Earth terminal adjacent to mains terminals	Antotek Antotek Ant	N
4.8 (7.2.7)	Electrolytic corrosion of the earth terminal	And otek anbotek	rupo, N
4.8 (7.2.8)	Material of earth terminal	Anto tek Anbotek	Anboli
Vu. Polek	Contact surface bare metal	Anti-	N
4.8 (7.2.10)	Class II luminaire for looping-in	oter Andore	Nanbo
Anbotek Anbotek	Double or reinforced insulation to functional earth	Anbotek Anbotek Anb	HOK N N
4.8 (7.2.11)	Earthing core coloured green-yellow	View Potek	,nboto N

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atek anbo	IEC 60598-2-4	Au. Pok	Vupo.
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	potok Anbore Ans	stek Aupor Am	odna
Anbore	Length of earth conductor	botek Anbotek Anbo	N
4.8 (7.2.10)	Class II luminaire for looping-in	ntek Anbotek Anbo	N
4.8 (7.2.11)	Earthing core coloured green-yellow	And atek anbotek Arr	N
otek Anbol	Length of earth conductor	Anbotek anbotek	Anbol N
4.9 (14)	SCREW TERMINALS	Anbotek Anbotek	Vopote.
Anborek	Separately approved; component list	Notek Anbotek Anbotek	N N
Anborek	Part of the luminaire	notek Anbotek Anbo	N
ek anboter	And Anbore	An Antolek An	00.
4.9 (15)	SCREWLESS TERMINALS	Augo Potek	VUDO.
rek h.	Separately approved; component list	Aupo, Au	AniNtek
Vupo. Vi	Part of the luminaire	ek Anbose And Andrek	Nipol
4.10 (5)	EXTERNAL AND INTERNAL WIRING	hotek Anbot Anbot	- VL
4.10 (5.2)	Supply connection and external wiring	Aupore Au	P
4.10 (5.2.1)	Means of connection:	Anbore Antolek	Anboren P
4.10 (5.2.2)	Type of cable:	Wupong Wup	AntPiek
Vupo, by	Nominal cross-sectional area (mm²):	ok Anbores Anb	Papor
Aupo	Cables equal to IEC 60227 or IEC 60245	potek Anbola Anti-	N P and
4.10 (5.2.3)	Type of attachment, X, Y or Z	Type X	Note P
4.10 (5.2.5)	Type Z not connected to screws	An botek Anbotek An	N
4.10 (5.2.6)	Cable entries:	hotek Anbotek	N.K
abotek An	- suitable for introduction	k hotek Anbotek	N.
botek	- adequate degree of protection	k wotek Anbotek	N
4.10 (5.2.7)	Cable entries through rigid material have rounded edges	nbotek Anbotek Anbote	otek P Mul
4.10 (5.2.8)	Insulating bushings:	abotek Anbote An	N
Jey Vupo,	- suitably fixed	abotek Anbotes	Nor
nbotek Ant	- material in bushings	k spotek Vupoles	N N
Anbotek	- material not likely to deteriorate	tek motek Anbotek	N
Anbotek	- tubes or guards made of insulating material	Inpotek Anbotek Anbote	N Ant
4.10 (5.2.9)	Locking of bushings	anbotek Anbotes And	Nes
4.10 (5.2.10)	Cord anchorage:	notek Anboren	N.V.

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Clause	Requirement - Test	Result - Remark	Verdict
Aupoto. A	stek supplies Autorit Am	stek Anbotek Anbo	Pr.
Anboten	- covering protected from abrasion	notek Anbotek Anbot	N
Anbotek	- clear how to be effective	otek Anbotek Anbo	N
ek Anbolek	- no mechanical or thermal stress	And Arek Anbotek Ar	N
otek Anboi	- no tying of cables into knots etc.	And stek anbotek	Anboln K
rotek ar	- insulating material or lining	Anb stek Anbotek	N
4.10 (5.2.10.1)	Cord anchorage for type X attachment:	ten Anbotek Anbotek	Nupo
Anbore.	a) at least one part fixed	hotek Anbotek Anbo	N
ak Anbores	b) types of cable	An Anbotek An	N
ootek Anbot	c) no damaging of the cable	And Lotek Anbotek	Anbo'N
sbotek An	d) whole cable can be mounted	And Anbotek	N ^O N
hotek.	e) no touching of clamping screws	And Anbotek	Nipos
An	f) metal screw not directly on cable	poten Anba stek anbot	N AN
k kotek	g) replacement without special tool	Anbotek Anbo tek	potek N
K Ann	Glands not used as anchorage	Anbotek Anbo tek	N rods
oote. Anu	Labyrinth type anchorages	Pupotek, Pupo,	Nek
4.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	ak Anbotek Anbotek	N Anbor
4.10 (5.2.10.3)	Tests:	botek Anbotek Anbot	N Ari
W Vupore	- impossible to push cable; unsafe	Anbotek Anboten Ani	Ν
otek Yupoz	- pull test: 25 times; pull (N)	W. Wotek Wilder	Anbo N
nbotek Ani	- torque test: torque (Nm)	k hotek Anbotek	AnbN
anbotek	- displacement ≤ 2 mm	ak botek Anbotek	Ν
hotek	- no movement of conductors	ors Am	N Act
k workelk	- no damage of cable or cord	Anbore & Ans	otok N
4.10 (5.2.11)	External wiring passing into luminaire	Anbore Ans Lotek	inposeN
4.10 (5.2.12)	Looping-in terminals	Aupole Aur otek	Nok
4.10 (5.2.13)	Wire ends not tinned	k Anbote. And	N
Anbor	Wire ends tinned: no cold flow	otek Anboten Anbo	N
4.10 (5.2.14)	Mains plug same protection	hotek Anbotek Anbo	N N
Aupore	Class III luminaire plug	hotek Anbotek Anb	N
tok supole	No unsafe compatibility	Vice Notek	N.



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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	abotok Anboto Anb	stek Aupor An	. anbo
4.10 (5.2.15)	Colour code low voltage	wotek Anboten Anb	N N
4.10 (5.2.16)	Appliance inlets (IEC 60320)	otek Anbotek Anbi	N
ek Anboren	Installation couplers (IEC 61535)	Anu stek Anbotek A	N.
work Anbo	Other appliance inlet or connector	And stek anbotek	AnboiN .
water w	Relevant IEC standard	Anbo tek anbotek	PUN.
Vu _D	notek Anbors Am	tek Aupo, Ar hotek	Model
4.10 (5.2.17)	No standardized interconnecting cables properly assembled	botek Anbore Ane	N N
4.10 (5.2.18)	Used plug in accordance with	Anbo, A. botek A.	ooter N
rek abo	- IEC 60083	Anbor An Motek	Anboth
Do Nok	- other standard	Aupole Augustek	An Nich
4.10 (5.3)	Internal wiring	tek Anbore And	Panbol
4.10 (5.3.1)	Internal wiring of suitable size and type	botek Anbores Ans	P
Aupola	Through wiring	botek Anbotes Anbo	√ P
ak Aupoton	- not delivered/ mounting instruction	hotek Anbotes An	N
ootek Anbo	- factory assembled	Anbotek Anbotek	Anber P. ok
Abolek Ar	- socket outlet loaded (A)	k hotek Anbotek	Anbou
Polek	- temperatures	Aribotek Anbotek	N
Polek	Green-yellow for earth only	pores Anton	N Pu
4.10 (5.3.1.1)	Internal wiring connected directly to fixed w	iring	o ^{tek} P
r burn	Cross-sectional area (mm²)	Aupoles Aupo	Nº toda
Olec Vup	Insulation thickness	Anbotak Anbo	New
Anborok An	Extra insulation added where necessary	k Anbolek Anbol	Noot
4.10 (5.3.1.2)	Internal wiring connected to fixed wiring via device	internal current-limiting	K N
k Aupotek	Adequate cross-sectional area and insulation thickness	Anbotek Anbotek Ant	otek N
4.10 (5.3.1.3)	Double or reinforced insulation for class II	abotek Anbores	Pek
4.10 (5.3.1.4)	Conductors without insulation	k potek Mipotes	N .
4.10 (5.3.1.5)	SELV current-carrying parts	ok notek Anbotek	N
4.10 (5.3.1.6)	Insulation thickness other than PVC or rubber	Pupotek Vupotek Vupote	N And
4.10 (5.3.2)	Sharp edges etc.	anbotek Anbotes Ant	NN
Jek Aupon	No moving parts of switches etc.	work ambore	N

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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Aupo	rek supoles And	otek Anbol All	1000
Anboten	Joints, raising/lowering devices	-otek Anbotek Anbo.	N N
	Telescopic tubes etc.	Anbotek Anbotek Anb	N
ek Anbore	No twisting over 360°	And Anbotek	P.
4.10 (5.3.3)	Insulating bushings:	Anbo tek anbotek	AnbolN
Nek .	- suitable fixed	Anbo tek abotek	N
Vuo.	- material in bushings	olek Wupo, W. Polel	Napor
Vup.	- material not likely to deteriorate	upotek Anbo. At.	ek N an
Anbo	- cables with protective sheath	Anborek Anbo. All	notek N
4.10 (5.3.4)	Joints and junctions effectively insulated	Anbotek Anbote	N
4.10 (5.3.5)	Strain on internal wiring	anbotak Anbota	Nek
4.10 (5.3.6)	Wire carriers	lek upotek Anbore	N
4.10 (5.3.7)	Wire ends not tinned	tek abotek Anbotes	N
abotek	Wire ends tinned: no cold flow	cho. K hotek Aubo	N Ant

4.11 (8)	PROTECTION AGAINST ELECTRIC SHOO	СК	-Volak
4.11 (8.2.1)	Live parts not accessible	Aupotek Aupo.	Nek
Anbotok Ant	Basic insulated parts not used on the outer surface without appropriate protection	otek Anbotek Anbotek	N Amboliek
ek Anborek	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	Anbotek Anbotek Anbotek Anbo	otek N Ar
Anbotek Anb	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Anbotek Anbotek	N
Anbotek Anbotek	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	lotek Anbotek Anbotek	N Anbot
ootek Anbotel	Basic insulation only accessible under lamp or starter replacement	Anbotek Anbotek	nbote N
wotek Anb	Protection in any position	Anbo tek nbotek	AnbN
Vun Olek	Double-ended tungsten filament lamp	Anbo sek shotek	Noore
Ann	Insulation lacquer not reliable	otek Anbo. Ak spotel	· N _{Anbore}
k Anbotek	Double-ended high pressure discharge lamp	Inpotek Aupoliok Aup	nek N ani



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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Vupo.	stek anbole. And	otek Anboy All	1000
	Relevant warning according to 3.2.18 fitted to the luminaire	botek Anbotek Anbot	N Ari
4.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position	Anbotek Anbotek A	rbotek N
4.11 (8.2.3.a)	Class II luminaire:	L hotek Anbotek	Anbo P.ek
Anbotek A	- basic insulated metal parts not accessible during starter or lamp replacement	lek Anbotek Anbotek	Anbore
Anbotek	- basic insulation not accessible other than during starter or lamp replacement	Anbotek Anbotek Anbo	P Am
botek Anbo	- glass protective shields not used as supplementary insulation	Anbotek Anbotek	Anbot N
4.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed	ek Vupotek Vupotek	AnN ambore
4.11 (8.2.3.c)	Class III luminaires with exposed SELV par	ts: oh Anboro	P ant
Aupora	Ordinary luminaire:	botek Anbotes Anbo	, P
ek Auporo	- touch current	Wolek Wipolek Vi	P
potek Anbo	- no-load voltage	Anbotek Anbotek	Anbo N
spotek Ar	Other than ordinary luminaire:	And Lotek Anbotek	An'N
br.	- nominal voltage	And k wotek	Npor

No.	All	700. h.	10,
lek Anboro	- touch current	An botek Anbotek An	P
botek Anbot	- no-load voltage	Anbotek Anbotek	Anbo N
shotek Ar	Other than ordinary luminaire:	An otek Anbotek	AndN
hotek	- nominal voltage	And otek Anbotek	N
4.11 (8.2.4)	Portable luminaire have protection independent of supporting surface	potek Anbotek Anbot	F P Amb
4.11 (8.2.5)	Compliance with the standard test finger or relevant probe	Anbotek Anbotek Ani	Imbote P
4.11 (8.2.6)	Covers reliably secured	Anbore An. hotek	Anb N ^{ek}
4.11 (8.2.7)	Discharging of capacitors ≥ 0,5 μF	k Anbore And	Nootek
Anbotek	Portable plug connected luminaire with capacitor	otek Anbotek Anbote	N Anbo
ek Anbotek	Other plug connected luminaire with capacitor	Anbotek Anbotek Ant	storek N A
bose. Yun	Discharge device on or within capacitor	Anbotek Anbo.	N
Anboten Ani	Discharge device mounted separately	k upotek Vupot	Notek
4.11.1 (-)	Class I luminaire with bayonet lampholder:	otek anbotek Anbots	N
Anbotek	- cap not accessible with test finger©	tek abotek Anbote	N
ik anborek	- metal lampholder is earthed	Anb	N N
of the state of th	Aupola Min Pole	Aupo. A. A.	"poter.

4.12 (12)	ENDURANCE TEST AND THERMAL TEST	100 No.
60	14 M. C.	-10 -





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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	hotek Anbote And	otek Anbor An	0000
4.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5) a (9.3) specified in 4.13	and (12.6) after (9.2) before	el ^k P
ok hotel	Anbotel And	Anbore An	polek
4.12 (12.3)	Endurance test:	Anboton Anbo	_{∞ot} P
Potes. Vup.	- mounting-position	(see Annex 2)	_
Anboten A	- test temperature (°C)	35°C	_
	- total duration (h)	240 h	_
Anbotek	- supply voltage: Un factor; calculated voltage (V)	3.7V*1.1	_
V Ans	- lamp used	LEDooton Andreas	_
4.12 (12.3.2)	After endurance test:	Anborek Anber	Р
Aupores A	- no part unserviceable	ok Anbotek Anbote	Р
Anborek	- luminaire not unsafe	stek supotek Aupose	Р
Anbotek	- no damage to track system	resk anbotek Anbot	N
ek Anborek	- marking legible	Anbo tek anbotek An	Р
otek anbo	- no cracks, deformation etc.	Yupo sek upolek	Р
4.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Aup B
4.12 (12.5)	Thermal test (abnormal operation)	The Aubon Williams	Nooz
4.12 (-)	Overturned position	nhotek Anbors Anbors	M N MA
4.12 (12.6)	Thermal test (failed lamp control gear cond	dition):	otel N
4.12 (12.6.1)	- case of abnormal conditions:	Aupotek Aupon Mu	N
otek Anbo	- electronic lamp control gear	Anborek Anbore	N
Anbotek Ar	- measured winding temperature (°C): at 1,1 Un	tek Vupotek Vupotek	Anbore Anbore
Ambotek	- measured mounting surface temperature (°C): at 1,1 Un:	botek Anbotek Anbote	k N Ant
k Anbore	- calculated mounting surface temperature (°C)	Anbotek Anbotek Anb	nbotelN
16/4	- track-mounted luminaires	Aupola Aug Tolek	Anto Noth
4.12 (12.6.2)	Temperature sensing control	ek Anbore And	Note
Aupo.	- thermal link	Hotek Anbores And	N
Anbore	- manual reset cut-out	Tolek Anboles Anto	N N
1000	District Park Park	A 10	2

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- auto reset cut-out

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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	arek anbore. And	stek Aupo, Williams	200
	- measured mounting surface temperature (°C):	lbotek Anbotek Anbo	N P
ok hotek	- track-mounted luminaires	Anbores And otek	oo ^{tek} N
4.12 (12.7)	Thermal test (failed lamp control gear in pla	astic luminaires):	Noda
4.12 (12.7.1)	Luminaire without temperature sensing con	itrol Maria Maria	Nick
4.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N
h. botek	Test method 12.7.1.1 or Annex W:	bote And sofek Anbot	_
ek hotek	Test according to 12.7.1.1:	Anbore And work An	o ^{tek} N
Pri.	- case of abnormal conditions:	Aupote, Aun	_
DO, VI	- Ballast failure at supply voltage (V):	Anbole And And	_
Vupo, V	- Components retained in place after the test	ek Anbotek Anbotek	Noot
Anbotek	- Test with standard test finger after the test	anbotek Anbotek Anbot	otek N M
Vupo.	Test according to Annex W:	Anbotek Anbott Att	oteN
otek Anbo	- case of abnormal conditions	Aupotok Aupoto	_
Anbotek Ar	- measured winding temperature (°C): at 1,1 Un	ok Anbotek Anbotek	_
Anbotek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	hotek Anbotek Anbot	_
otek Aupor	- calculated temperature of fixing point/exposed part (°C)	Anbotek Anbotek An	_
-tok	Ball-pressure test	See Table 4.15 (13.2.1)	AribNon
4.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent 10 VA	lamp > 70W, transformer >	North
Anbotek	- case of abnormal conditions	otek Anbotek Anbore	_
Anbotek	- measured winding temperature (°C): at 1,1 Un	Anbotek Anbotek Anb	_
nbotek An	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Anbotes Anbotek	_
Anbotek	- calculated temperature of fixing point/exposed part (°C)	ofek Anbotek Anbotek	
Aupa.	Ball-pressure test	See Table 4.15 (13.2.1)	N 40s



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spotek An	IEC 60598-2-4	a whole	AUD
Clause	Requirement - Test	Result - Remark	Verdict
4.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	otek Anbotek Anbotek Anbotek	N Anbo
tek Pupote	- case of abnormal conditions	han Autotek M	_
upotek Yup	- Components retained in place after the test	W. W	Anbotek Anbotek
Anbotek	- Test with standard test finger after the test	otek Anbotek Anbotek	Nabote
4.12 (12.7.2)	Luminaire with temperature sensing contro	ho tek Anbotek Anbo	V. VIII.
rek Anbore	- thermal link	. Yes No 🗆	_
work And	- manual reset cut-out	. Yes 🔲 No 🗌	_
wolek	- auto reset cut-out	. Yes No	_
Pun Polek	- case of abnormal conditions	hupo tek vupotek	_
Anborek	- highest measured temperature of fixing point/ exposed part (°C):	Chotek Anbotek Anbot	_
lek Vupose	Ball-pressure test:	. See Table 4.15 (13.2.1)	N
4.12 (-)	Test overturned position (overturns < 15°)	6° and 15° pass	Anbot P
4.13 (9)	RESISTANCE TO DUST, SOLID OBJECT	S AND MOISTURE	Pupo.
4.13 (-)	If IP > IP 20 the order of tests as specified	in clause 4.12	N
4.13 (9.2)*	Tests for ingress of dust, solid objects and	moisture:	_
ek hotel	- classification according to IP:	IP65	_
- ak - ab	- mounting position during test:	According to manual	_
boy by	- fixing screws tightened; torque (Nm):	0.4	_
Aupor	- tests according to clauses:	lak Auporen Aug	_
Aupor	- electric strength	Botek Anboien Anso	r Panbot
Vupo.	a) no deposit in dust-proof luminaire	abotek Anbores And	otek N an
ek Aupo.	b) no talcum in dust-tight luminaire	potek Aupole Au	P
potek Anbro	c) no trace of water on live parts	Anbotek Anbotes	Pek
Anbotek A	d) no accumulation of water in waterproof luminaire	k Anbotek Anbotek	Ambotek Ambotek
Anba	e) no water in watertight luminaire	lotek Aupon An	F Panbott
Aupo.	f) no contact with live parts (IP 2X)	Pupotek Vupore Vu	ina N vote
wek Aupo	f) no entry into enclosure (IP 3X and IP 4X)	Ambotek Ambotek Am	Inbotel N



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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Aup	abotok kuboto Anti	otek Aupo, W. Potek	p.r.bc
Anbo. hotek	f) no contact with live parts (IP3X and IP4X)	abotek Anbotes And	N P
	g) no trace of water on part of lamp requiring protection from splashing water	Ambotek Ambotek A	Potek N
otek Mpc	h) no damage of protective shield or glass envelope	Anbotek Anbotek	Anbotek Anbotek
4.13 (9.3)	Humidity test 48 h	Humidity: 93% Temperature: 25°C	Panbo
anbotek.	Aupo, Wasek Wuposer, V	un tek apotek Anbo	/ b)
4.14 (10)	INSULATION RESISTANCE AND ELECTR	RIC STRENGTH	poler_
4.14 (10.2.1)	Insulation resistance test	Class III	anbot P
potek And	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø:	Anbotek Anbotek	_
notek.	Insulation resistance (M Ω):	Vuo	_
And	SELV:	upotek Anto	Р 🖟
anbotek Anbotek	- between current-carrying parts of different polarity:	100 ΜΩ	potek P
otek Anbo	- between current-carrying parts and mounting surface:	100 ΜΩ	Ambotek
Auporek W.	- between current-carrying parts and metal parts of the luminaire:	ek Anbotek Anbotek	Noot
k Anbotek	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek Anbot	otok N M
otek Anbol	- Insulation bushings as described in Section 5:	Anbotek Anbotek	Anborek
Tupole, VL	Other than SELV:	ek Anbotek Anbo	N
Anboten	- between live parts of different polarity:	stek anbotek Anbote	N
Anbotek	- between live parts and mounting surface	Anbotek Anbotek Anbot	otek N Am
Vun	- between live parts and metal parts:	Vupotek Vupor- Vi	~otoN
potek Anbo	- between live parts of different polarity through action of a switch:	Aupotek Aupotek	Vipo N. k
Anbotek Anbotek	- 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 ₂ O ¹
, hotek	γαιιο	Pupp. In. Stork Pulp	0/0.

Ν

- Insulation bushings as described in Section 5



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	IEC 60598-2-4		
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	abetek Anbote And	otek Aupo, W. Potek	p.r/bol
4.14 (10.2.2)	Electric strength test:	abotek Anbote Anb	P
Vupole,	Class of protection:	Class III	Р
k Aupolei	Dummy lamp	Anu dek potek A	N
alok solo	Luminaires with ignitors after 24 h test	Anbo ak shotek	Anbo'N
401	Luminaires with manual ignitors	Anbo, ak hotek	N. N. Ser
Anbo. P	Test voltage (V):	otek Anbore K Ans	Nabol
Aupor	SELV:	botek Anbote. And	P P
Anbore.	- between current carrying parts of different polarity:	500V	pořek P
otek Anbo	- between current carrying parts and mounting surface:	500V	Ambol P
Anbotek Ar	- between current-carrying parts and metal parts of the luminaire:	lek Anbotek Anbotek	And Anbot
Anbotek Anbotek	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek Anbotek Anbot	otek otek
otek Anbo	- Insulation bushings as described in Section 5:	Anbotek Anbotek	Anbotek
'upo, b.	Other than SELV:	tek Anbore And	Nooti
Aupola	- between live parts of different polarity:	notek Anboren Anbo	N
Anborek	- between live parts and mounting surface:	Anbotek Anbotek Anbo	otok N
stek Vupo,	- between live parts of different polarity through action of a switch:	Anbotek Anbotek	Anbot N
nbotek Ar	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	ek Anbotek Anbotek	Anbote Anbote
Anbotek	- Insulation bushings as described in Section 5:	Anborek Anborek Ant	otek N
1.14 (10.3.1)	Touch current or protective conductor current (mA):	Anbotek Anbotek	N N

4.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING				
4.15 (13.2.1)	Ball-pressure test	See Test Table 4.15 (13.2.1)	PARE		
4.15 (13.3.1)	Needle-flame test (10 s)	See Test Table 4.15 (13.3.1)	P	14/4	
4.15 (13.3.2)	Glow-wire test (650°C)	See Test Table 4.15 (13.3.2)	upotekP		







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	IEC 6059	8-2-4			
Clause	Requirement - Test	Aupolek	Result - Remark	ambotek	Verdict
4.15 (13.4)*	Proof tracking test (IEC 60112)	Anbo	stek Anbotek	Anbotak	N
Anbotek	- part tested	9.	nbotek nbotek	. Aupo,	N



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John V.	Anborek Anbore	r hupo,	IEC 60598-2-4	Anboten An	botek	Anborek
Clause	Requirement	- Test	stek subote	Result - Remark	Pr. Polek	Verdict
1000	P	-0/e, 0L	(A)	ak hotel	Die.	10

Clause	Kedullellielli - Test	"ole		Nups IX	esuit - ive	illain	polo	Verdict
Anbr	- abotek sabote	Arra	No.	Anborek	anb	0,	by.	Yodna .
100	TABLES: Creepage d		184	. 1/00	rok.	Tupo _{se}	Pur	P
Dr.	Minimum distances (.0-	. (50/60	Hz) sin	usoidal	voltages	Amb.	P
RMS working	g voltage (V) not excee	ding	50	150	250	500	750	1000
Creepage d	istances	hotek	Anb	oto.	VUIT.	6	botek	Aupor
Required bas	sic insulation, $PTI \ge 600$	0	0,6	0,8	1,5	3	4	5,5
Measured be different pola	etween current carrying arity	parts of	>0.6	Antrofes.	Anb	nbotek	Anborek	Anbott
Required ba	sic insulation, PTI < 60	0	1,2	1,6	2,5	5	8	10
Measured	Augo rok	abotek	Aupolo	- PZ	Note:	-nbol	b	100,
Required sup	oplementary insulation	PTI ≥ 600	-	0,8	1,5	3	4	5,5
Measured	anbotek Anbo	, botek	0	Upole.	Pur	40s	upojek	hupo,
Required sup	oplementary insulation	PTI < 600	-	1,6	2,5	5	8	10
Measured	Anbotek Anbo	e/r	Volon.	Anbot	b	Up.	- 000	lek - Vup
Required rei	nforced insulation	5333	-	3,2	5	6	8	11
Measured	tek abotek	Aupol	P11.	- 4 ₀ y	anbotek	Aupo	- ak-	Veron-
Clearances	na. Projek	Anbore	Vue	Nek	anbotek	PU	00.	Purpley
Required ba	sic insulation		0,2	0,8	1,5	3	4	5,5
Measured be different pola	etween current carrying arity	parts of	>0.2	Anbor	k b,	potek	Vapo,	ek Aup
Required sup	oplementary insulation		-	0,8	1,5	3	4	5,5
Measured	otek Anbotek	Vupo.	~ o	4 ₀	rupoles.	PUPP	101-	, botak
Required rei	nforced insulation		-	1,6	3	6	8	11
Measured	Ant tek anbotek	Aupore	by	No/k	nbo	 0/c	rupo.	wore
Table 11.2	Minimum distances	(mm) for no	on-sinu	soidal p	ulse vol	tages	Aupore	re pro-
Rated pulse	voltage (peak kV)	2,0	2,5	3,0	4,0	5,0	6,0	8,0
Required cle	arances	1,0	1,5	2	3	4	5,5	8
Measured			todna	e	YUD-		Horo	Anbor-
Rated pulse	voltage (peak kV)	10	12	15	20	25	30	40
Required cle	arances	11	14	18	25	33	40	60
Measured	upotek Anbor	h2.		anboto	ba	00.	"0/8	k Anbo
Rated pulse	voltage (peak kV)	50	60	80	100	-	-	-
Required cle	arances	75	90	130	170	-	-	-
Measured	K ntok	Arbolo.	Pur	-10T-	Hotek	pnb		Pu.

Shenzhen Anbotek Compliance Laboratory Limited





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Mek	anbotek Anbot	P.V.	IEC 605	98-2-4	AUD	, o/c	h. abot	No.	Anboten
Clause	Requirement	: - Test	-otek	Anbore	Result	t - Rema	rk	otek	Verdict
Vupo	water.	Pupole.	Vur	-	No for	Vupo,	br.	Yan	, boli
3.15 (13.2.1)	TABLE: Ball P	ressure Tes	st of Thern	noplast	ics				ek P
Allowed in	mpression diame	ter (mm)		otek	Aupole	b.	up- Nek	, al	,o' —
Object/ Pa	rt No./ Material	Manufactu	rer/ T	est tem	naratur	2 (°C)	Impress	ion diar	neter (mm

trademark Plastic of enclosure -- 75 0.93

Supplementary information:--

3.15 (13.3.1) TABI	E: Needle-flame test (I	EC 60695-11-5)			P
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
Plastic of enclosur	e	-woles O Mupa	Yes	0,000	Pass
Supplementary inf	ormation:				

3.15 (13.3.2)	TABLE	: Glow-wire	e test (IEC 6069	95-2-11)			Ambo P
Glow wire	tempera	ture		650°C	ak abolek	Anboten	_
Object/ Pa Material	rt No./		Manufacturei trademark	-/	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Plastic of e	enclosure	-Anbo	notek	Aupoles	No	Orek Ant	Pass
					of withdrawing the lying parts (Yes/N		Anbore
Supplemen	ntary infor	mation:	botek Anbote	Ver Pupe	tek Anbotek	Aupore.	Pan

3.15 (13.4) TAE	BLE: Proof	tracking test (IEC	60112)	Anbotek	Aupole	k Ant	N Yest N
Test voltage PT	l		175 V	Aupo.	rok at	otek	_
Object/ Part No./	Material	Manufacturer/ trademark			without failu ree specim		Verdict
Anboren	Anbo	obotek An	ook - Vun	-48F	Anbotek	Anboy	by
Supplementary in	nformation:-	- botek	Anbore. A	up	abotek	Anbole	bu.

ANNEX 1	TABLE: Critical components information	Vupose Vup	Polok
184			rote. Plus





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otek	Anbotek Anbotek	Pulso moi IE	C 60598-2-4	Vupore. M.	abotek	Anbolek
Clause	Requirement - Tes	An-	ek Anborek	Result - Remark	h. botek	Verdict

object/par t No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
LED light source	FOSHAN KAICHENG LIGHTING CO., LTD	2835	0.2-0.5W	EN 60598-1 EN 60598-2-4	Test with appliance
Battery	Various	Various	3.7VDC, 50AH	IEC 62133	CE
Internal wire	Various	1007	22AWG, 80°C	UL 758	UL Antorial
Plastic of enclosure	COVESTRO DEUTSCHLAND AG	PC R96 GF + (z)(f1)	V-1, 120°C	UL 94	UL E41613
Switch	Zhejiang Jialong Electronics Co., Ltd.	KAN-9, KAN- 9A, KAN-9L	6A, 250VAC	61058-1	VDE
LED PCB	INTERNATIONAL LAMINATE MATERIAL LTD	ILM-R1##	V-0/130°C	UL 796	UL Anbotek



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ntek .	anbotek Anbotes	IEC 60598-2-4	Anboro sek aborek	Anborek
Clause	Requirement - Test	Ann Anbore	Result - Remark	Verdict

ANNEX 2-1 temperature measurements, thermal te					ection 12	Anbe	P An	
tek shotek	Type reference		Repoten.	: TG01	-C	ek p	_	
otek Vupots	amp used	lano	, bote	: LED	, ok	botek	_	
ntek anb	Ballast used	Pro-	: "la,	ojek N	P.	abotek	_	
And Lotek A	Mounting position of luminaire				al use	hotek	_	
Amb sofek S	Supply wattage (V	V)		: 96.5V	V Anbo	, dbo	_	
Arra Motok S	Supply current (A)	upo,	her water	Aribotek	Aupo	ok p	_	
ATTO TOTAL	Calculated power	factor		Anbol	len Vupo.	30K	_	
hole Am	Table: measured t	emperatur	es correcte	d for Ta=25	°C:	-tek	Brok	
Anbore. An	abnormal operat	ing mode .	- Ku-	-botek	Anborek	Anbo	_	
Anboro	test 1: rated volta	age	00,		Anborek	Vupo.	_	
	test 2: 1,06 times 1,05 times rated v				1.06=3.9V	ek Anbo	_	
	test 3: Load on v				-Anbotek Anbotek			
	test 4: 1,1 times 1,05 times rated v			ovote)	Anbotek Anbotek			
	Through wiring or by a current of A c				Anborek	Anbol	_	
temperature (°C)	of part		clause 12.	4 – normal			e 12.5 – ormal	
		test 1	test 2	test 3	limits	test 4	Limit	
Switch	botek Anbote	- Anbo	28.9	botek	90	YUN LOK	Anbote!	
Input wire of LEC	PCB	an An	46.7	Maloda	80	Vup.	Jk anbi	
Battery surface	polek_	43.2	by	Ref.	Aupa	- Vor-		
LED PCB			57.4	Pr	130	- PU	Vot.	
LED cover	k work	anboick	39.5	bu.	95 ,,,,	01 ^{SK}	Anbo - rek	
LED Anbor	Aug Viel	noote	62.8	- Pin	Ref.	^{rupoj} ek	Vupo.	
Mounting surface	ote. And	/ ₂	26.7	0010	90	Antotok	Pupo,	



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otek or	potek Aupor	IEC 60598-2-4	Anbo	abotek	Anbore
Clause	Requirement - Test	Mr. Anbotel	Result - Remark	"potek	Verdict
Anbo	otek anbots	Aug W	Jek Anbo.	No.	of ode.
ANNEY 2	Scrow terminals (part	of the lumiensire)	No Note	Vupo.	br.

ANNEX 3	Screw terminals (part of the lumisnaire)	Lotek Anbotek Anbo	- N
(14) Maria (14)	SCREW TERMINALS	anbotek Anbo	N
(14.2)	Type of terminal:	Aug olek Pupolek W	_
notek Ant	Rated current (A)	Anto dek Anbotek	_
(14.3.2.1)	One or more conductors	And tek anbotek	N.
(14.3.2.2)	Special preparation	leg Vupp.	Nupot
(14.3.2.3)	Terminal size	ipotes, Vuro, rek upo,	ok N An
N Vien	Cross-sectional area (mm²):	Anbotek Anbo	botek N
(14.3.3)	Conductor space (mm):	Anbotek Anbot	Ň
(14.4)	Mechanical tests	Anbotek Anbos	Niek
(14.4.1)	Minimum distance	ek anbotek Anbo	N
(14.4.2)	Cannot slip out	otek anbotek Anbote	N
(14.4.3)	Special preparation	stek supotek Aupo	N Pro
(14.4.4)	Nominal diameter of thread (metric ISO thread)	Anbotek Anbotek An	N
DOLO. VIII	External wiring	Anbotek Anbo	Nok
Anboros	No soft metal	ak Anbotek Anbot	N
(14.4.5)	Corrosion	otek Anbotek Anbote	N N
(14.4.6)	Nominal diameter of thread (mm)	untek Anbotek Anbo	N
ar Anbore	Torque (Nm):	Anti-	N
(14.4.7)	Between metal surfaces	Anti-	Anbor N
wotok p	Lug terminal	Anbotek anbotek	AUCN
Ann	Mantle terminal	Aupotek	Noore
Nun Utek	Pull test; pull (N)	potek Anbo tek abots	N Anb
(14.4.8)	Without undue damage	Anbotek Anbo. An	N Yes



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Mak	anbotek Anbot At.	IEC 60598-2-4	Anbu sek shotek	Anbore.
Clause	Requirement - Test	hotek Anbote	Result - Remark	Verdict

ANNEX 4	screwless terminals (part of the luminal	re)	lek — Vup
(15)	SCREWLESS TERMINALS	Anbore And Otek	orek N
(15.2)	Type of terminal:	Anbore. And	_
ipoles Vien	Rated current (A)	Anboles Anb	_
(15.3.1)	Material	lek Aupoles Augo	Napote
(15.3.2)	Clamping	botek Anbotek Anbo	N N
(15.3.3)	Stop	hotek Anbotek Anbo	N N
(15.3.4)	Unprepared conductors	Anbotek Anbotek Ar	N
(15.3.5)	Pressure on insulating material	Antotek Antotek	Anbo N
(15.3.6)	Clear connection method	Ann otek anbotek	Non
(15.3.7)	Clamping independently	Ans stek Anbotek	Nupos
(15.3.8)	Fixed in position	pose, Yupos	ek N anb
(15.3.10)	Conductor size	Anbotes Anbe	potok N p
r bus	Type of conductor	Anbotek Anbo	N toda
(15.5.1)	Terminals internal wiring	Anbotek Anbe	Nex
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples)	ek Anbotek Anbotek	Notek
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples)	Anbotek Anbotek Anbot	otek N Anbe
ek Aupo,	Insertion force not exceeding 50 N	Anborek Anbore An	N
(15.5.2)	Permanent connections: pull-off test (20 N)	Anbotek Anbotek	Anbotek Anbotek
(15.6)	Electrical tests	ek Aupo, botek	Noote
Aupa	Voltage drop (mV) after 1 h (4 samples) .:	otek Anboy Ar. hot	K N _{Anbo}
Anbo	Voltage drop of two inseparable joints	Anbotek Anbors Am	otek N A
Anbo. rel	Number of cycles	anbotek Anbote An	N
potek Anbo	Voltage drop (mV) after 10th alt. 25th cycle (4 samples):	Anbotek Anbotek	N _{ak}
Amborek A	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	otek Anbotek Anbotek	Nootes.
k Anbotes	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	Anbotek Anbotek Anbote	otok N An
otek Anbotek	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)	Anbores Anborek	_{lmb} ote N
	(a) (a)	4.07	w.07



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atek anbotek	Aupor	Tr.	dE	C 60598	3-2-4	Vupo	No.	botek	Anb	Ole.
Clause R	equirement	- Test	bugge - Oke	3/4	anboyen	Result - R	emark	hotek	V	erdict
Vupo,	40101	upolog	Villa	Nor	000	ick bu	00,0	bron.	No.	odoo
(15.7)	Terminals ex	ternal wir	ing 📈	, ,	br.	word*	Anbotek	Anbo	40.	N
Anboten	Terminal size	and ratin	ng		p.S				00°	N
	Pull test spri 4 samples);		erminals	Anbote	otek	Anbotek	Anb	otek	Alboio	N
	Pull test pin o	or tab terr	minals (4 sampl	es);	Anboti	otek l	Anbotek	P	N. rek
apotok	ipole b	'u.	. and	otek	Pupo,	. ok	Notok	pupol.	310	Anbo
200	Contact resis	- 16	<u> </u>	nbotek	2.0	1001	Vu.	L DAY	olek	N pro
Die.	/oltage drop	(mV) afte	er 1 h	210	6.	Vupoter	VUD	No.	notel	N
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV	/)	1014	Anbote.	And	Nove	nbote	e p	upo,	b.c.	-otok
	Voltage dr	op of two	insepar	able joi	nts				2	N
Anborok Ar	Voltage dr	op after 1	0th alt.	25th cy	cle	10K	-botek	Anbore		N
nbotek	Max. allow	ed voltag	e drop	(mV)	<u>A</u> nl	D _D	Pu.	Anb	ote	
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV	() Anbole.	VU	101	/5	lek	Aupor	bu.	Note	hupo	1011
oote Ann	Voltage dr	op after 5	0th alt.	100th c	ycle	Anbore	Þ	-tek		,oNo
Aupore Aup	Max. allow	ed voltag	je drop ((mV)		Anb	olek	Vupo.	4	
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV	Varia rest	abote	. 0	upo.	Pr.	Nek	Pupote.	Vu.	40.	
k Aupoley	0.1/40	ageing: v	/oltage	drop aft	er 10th	alt. 25th c	vcle	10/4	TUP OLO	N
otek anborek	Max. allow	100	V.	1-0	, ak	Pupo.	j	bolek	P	
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV	Notice No	- 4		1ek	Anbore	bu.	100	¹ ² ¹ Octor		Aupo.
And seek	- N	ageing: \	/oltage	drop aft	er 50th	alt. 100th	cvcle	DII.	rek	Nanb
bupo.	Max. allow	10010	- P	00.		ipojek	Vupole,	-K	100	
terminal	1	2	3	4	5	6	7	8	9	10
voltage drop (mV		9/k	Upo.	bir.	- 0	7,01	0.0	27		10



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	Attachment 1: Test report	of EN 62031	bee
lause	Requirement - Test	Result	/erdict
4	GENERAL REQUIREMENTS	W. Vup. Fox "Ap.	70/
4.4	Integral modules tested assembled in the luminaire	Ambotik Ambotek Ambo	Aupo Nr
4.5	Independent modules complies with requirements in IEC 60598-1	Antotek Anbotek Anbotek	NP ON
5	GENERAL TEST REQUIREMENTS	Par Poles Vupo	18 -
5.5	SELV-operated LED modules comply with An I of IEC 61347-2-13	nex (see Annex 1)	ipotek N
ak an	General conditions for tests in Annex A	(see Annex A)	N N
6	CLASSIFICATION	An stell anbo	Aup
Anbole	Built-in module	: Yes 🗌 No 🖂	_
Aupolek	Independent module	: Yes 🛛 No 🗌	_
Anbot	Integral module	: Yes 🔲 No 🖂	_
ak An	For Integral module; Note to 1.2.1 in IEC 605 1 applies.	1/20, by	_
-	MARKING Anbert Anbert Antek	supotes Vugo, r Potek	Anto
7	MARKING	No. 10 May No.	N N
Anboro	Requirements not applicable to the evaluated	product.	potek
8	TERMINALS	*v/r */0^ /v.	Anbotek
in Pul	Screw terminals according section 14 of IEC	60598-1:	N
Olok	Separately approved; component list	(see Annex 2)	N
rupo, ek	Part of the luminaire	(see Annex 3)	N N
anbotek	Screwless terminals according section 15 of	EC 60598-1:	N N
nbote	Separately approved; component list	(see Annex 2)	N
6	Part of the luminaire	(see Annex 4)	Anbo N
- ok	Connectors according IEC 60838-2-2:	Anbore Anborek	MUN
0,	Separately approved; component list	(see Annex 2)	N
9 (9)	PROVISION FOR PROTECTIVE EARTHING	abor Am att	N N
nbote	Requirements not applicable to the evaluated	product.	io.
10 (10)	PROTECTION AGAINST ACCIDENTAL CO	ITACT WITH LIVE PARTS	Amber N. e.k
10k	Requirements not applicable to the evaluated	product	





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up. otek	Anbotek Anbotes	Attachment 1: Tes	t report of EN 62031	Anbotek Anbote	Anto
Clause	Requirement - Test	rok potek	Result	nbotek Ant	Verdict

11 (11)	MOISTURE RESISTANCE AND INSULATION	//pc
b2.	k boten Anb stek hobote And k sotek	Mipor
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):	Potek
work!	For basic insulation $\geq 2 \text{ M}\Omega$	N
And	For double or reinforced insulation \geq 4 M Ω 100M Ω	P
Anbotek Anbotek	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	Maribotek Maribotek

12 (12)	ELECTRIC STRENGTH			anbot'
Anbotek	Immediately after clause 11 electric strength test for 1 min	Ambotok Ambotok Amb	lek .	P An
Vun Viek	Basic insulation for SELV, test voltage 500 V	500V	upole.	Р
Vupa	Working voltage ≤ 50 V, test voltage 500 V	ek Aupo, Ar hotek	Anbo'	N
Anbo	Working voltage > 50 V ≤ 1000 V, test voltage (V)	otek Anbor An botek	2.4	Norgan
Dojen Vi	Basic insulation, 2U + 1000 V	inbotek Anbot ak hotek		Nupore
Aupolek	Supplementary insulation, 2U + 1000 V	anbotek Anbote An	401	N ant
anborek	Double or reinforced insulation, 4U + 2000 V	abotek Anbore And	olek.	N
anbotek	No flashover or breakdown	ak abotek Anbotes A	Co.	N
otek Anbot	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	ostek Anbotek Anbotek	Anto	N _{potek}

13 (14)	FAULT CONDITIONS		BK AUD
- (14)	When operated under fault conditions the control	gear:	potek N
Vupole	- does not emit flames or molten material	Anboten Anbo	Nodo
Anbo	- does not produce flammable gases	tek Anbotek Anbo	Nick
otek tu	- protection against accidental contact not impaired	Ipotek Aupotek Aupotek	N Anbotel
anbotek	Thermally protected controlgear does not exceed the marked temperature value	Anbotek Anbotek Anbot	N Anb
Anbotek Anbot	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	ek Anbotek Anbotek	N Anbotek



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	Attachment 1: Test report of	EN 62031	
ause R	equirement - Test	Result	Verdict
Vue	Totak Auport Art Poten	Anbo	abolen
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	Bytak Anbotek Anbotek Anbotek Anbotek	Anbote ^l N
otek Anb	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	Anbotek Anbotek Anbote	N P
W.	anboten Anno	VII. TOK POLOK V	upo.
- (14.2)	Short-circuit or interruption of semiconductor devices	otek Vupotek Vupotek	Albote N
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	Antotek Anbotek Anbotek	N Anbo
- (14.4)	Short-circuit across electrolytic capacitors	Anbotek Anbo. Ak	rek N
- (14.5)	After the tests has been carried out on three sai	mples:	wole N
Anbotek	The insulation resistance \geq 1 M Ω	k anbotek Anbot A	notel N
Anbotek	No flammable gases	stek anbotek Anbote	N
k anbotel	No accessible parts have become live	rek abotek Anbote	N,
otek Anbr	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	Anbotek Anbotek Anbotek	rek AN
- (14.6)	Relevant fault condition tests with high-power supply	Amborek Amborek Ar	ibolek N
13.2	Overpower condition	And stek ambotek	Arboot P
r rotek	Module withstands overpower condition >15 min	1. And tek anbotek	Aupo, B
otek Anbo	Module with automatic protective device or power limiter, test performed 15 min. at limit.	hotek Anbotek Anbotek	PLN,
abotek A	No fire, smoke or flammable gas is produced	hotek Anbotek Anbo	P P
Anbotek	Molten material does not ignite tissue paper, spread below the module	Anbotek Anbotek An	Anbotek N
Anbo	CONSTRUCTION	tek uporg Am	Antotek
15	CONSTRUCTION	70 M	lodge
itek Anbo	Wood, cotton, silk, paper and similar fibrous material not used as insulation	Wepotek Wipotek Wipot	ek Au
abole Ac	And Andrews	Lotek Anbo An	-al-
16 (16)	CREEPAGE DISTANCES AND CLEARANCES		1/02
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	tel Anbotek Anbotek	Antor N
		45 40	







	Attachment 1: Test report of EN 62031	
ause F	Requirement - Test Result	Verdict
Ann	Albotek anbors Am alek amotek Anbo Mark Motek Anbo	ofer
Anborotek	Basic insulation on printed boards tested according to clause 14	Pupote N
	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16	Anb N
Anbotek An	Creepage distances not less than minimum clearance	N
16 (-)	Conductive accessible parts in compliance with applicable parts of IEC 60598-1	Albote ^k N
47 (47)	CODEMIC CURRENT CARRYING PARTS AND CONNECTIONS	Aupor
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	dns
Jotes Ant	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	, N
18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING	olo.
- (18.1)	Ball-pressure test	N
- (18.3)	Glow-wire test (650°C) See Test Table 18 (18.3)	Anboro
- (18.4)	Needle-flame test (10 s)	N
- (18.5)	Proof tracking test	N
19 (19)*	RESISTANCE TO CORROSION	ote-
Anbolek	- test according 4.18.1 of IEC 60598-1	N
k Aupote	- adequate varnish on the outer surface	N
20*	INFORMATION FOR LUMINAIRE DESIGN	N
iupole.	Information in Annex D (informative)	8 -
abolek	Arbon Andrew Anbores Anbo Le Lotek Anbores Anb	Nest
21*	HEAT MANAGEMENT	Jo.
21.1	General	Anbo N
Pr.	Exchangeability is safeguarded by cap or base	Mag
21.2	Heat-conducting foil and paste	Ņ
nborek	Heat-conducting foil delivered with the module if necessary	Kelk N
	"upot Will " " utek "upon Will " " " " " potek W	Up.
22 *	PHOTOBIOLOGICAL SAFETY	100101
22 * 22.1	PHOTOBIOLOGICAL SAFETY UV radiation	N





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upo.	Anbotek Anbotes	Attachment 1: Test	report of EN 62031	abotek Anbo	ion Pupo
Clause	Requirement - Test	ak botek	Result	nbotek Ar	Verdict

22.2	Blue light hazard	N/solo
Anbote	Assessed according to IEC TR 62778	N
22.3	Infrared radiation	N tok
potek l	Requirements for infrared radiation when required	nbotak N Anbot

Α		ANNEX A - TESTS		
r 1	1000	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable	k Anbotek Anbotek	Anbotek

		ANNEX 1 - SELV-operated LED modules	hotel.
20	notek A	SELV-operated LED modules in compliance with Annex I of IEC 61347-2-13	N



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Attachment 2: Photo Documentation

Photo 1
TG01-C





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Attachment 2: Photo Documentation



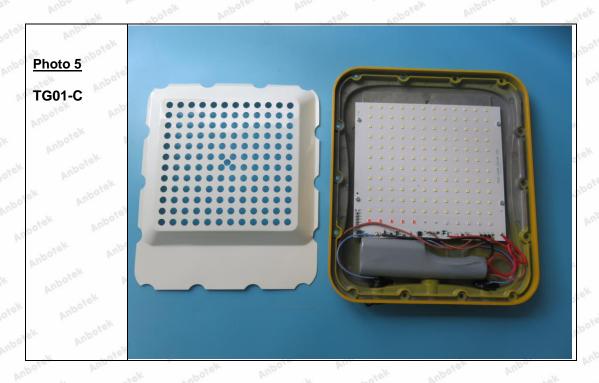


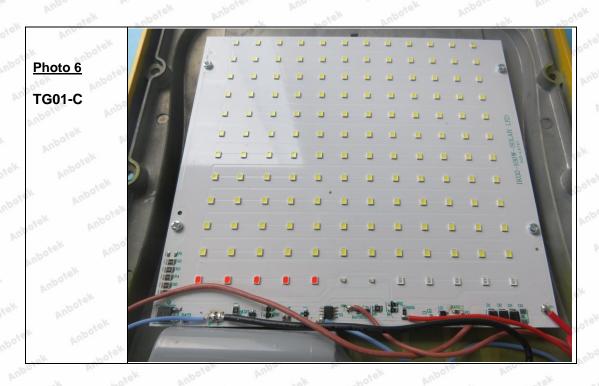


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Attachment 2: Photo Documentation





End of report --