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Test Report

Client Name : Foshan kaicheng lightling Co., Ltd.

Address No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan

52800, China

Product Name : Solar Street Light

Date : Jul. 02, 2020

Anbotek Product Safety Product Safety



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TEST REPORT IEC 60598-2-3

Part 2: Particular requirements Section Three – Luminaires for road and street lighting

Report

Report reference No. 18240IC00001802

Testing laboratory

Name: Shenzhen Anbotek Compliance Laboratory Limited

Address 1/F, Building D, Sogood Science and Technology Park, Sanwei

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

Guangdong, China. 518102

Testing location Same as above

Applicant:

Name Foshan kaicheng lightling Co., Ltd.

Address No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan 52800,

China

Test specification

Standard IEC 60598-2-3:2002+A1:2011 used in conjunction with

IEC 60598-1:2014+A1: 2017

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

Test item

Description: Solar Street Light

Trademark: N/A

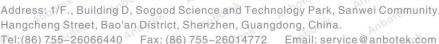
Model and/or type reference TR01-A, TR01-B, TR01-C

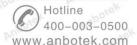
Manufacturer.same as applicantAddress.same as applicantFactory.same as applicantAddress.same as applicantsame as applicant

Rating(s): Operating Voltage: 3.2V; Operating Current: 31.25A; Max power: 100W;

Battery: 3.2V, 40 Ah









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Test item particulars

Classification of installation and use: fixed luminaire

Supply Connection: Internal wire with solar battery

Classification of installation and use: Class III

Degree of protection IP66

Test case verdicts

Test case does not apply to the test object .: N(.A.)

Test item does meet the requirement: P(ass)

Test item does not meet the requirement: F(ail)

Testing

Date of receipt of test item Jun. 12, 2020

Date(s) of performance of test Jun. 12, 2020 to Jun. 22, 2020

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.

Tests performed

- EN 60598-1:2015+A1:2018
- EN 60598-2-3:2003+A1:2011
- 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.

The submitted samples were found to comply with the above specification.

Attachment to test report

Attachment 1: Test report of EN 62031:2008+A1:2013+A2:2015

Attachment 2: Photo documentation





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Copy of marking plate

Solar Street Light Model No.: TR01-C

Rating: Operating Voltage: 3.2V; Operating Current: 31.25A;

Max power: 100W; Battery: 3.2V, 4Ah



IP66



Manufacturer: Foshan kaicheng lightling Co., Ltd. Address: No. 16 Xingyexi Road, Shishan, Nanhai District,

Foshan 52800, China

Made in china

Rating label is stuck on the enclosure of Solar street light(Size: height of WEEE mark at least 7mm, height of CE mark at least 5mm, height of letters and numbers at least 2mm)

General product information

Solar street light for outdoor use, Maximum mounting height is 12 m.

All models have the same structure, different power and size

Unless otherwise specified, Maximum power models TR01-C was selected as representative models to perform all tests.

The IP test (3.13 (9.2)) is tested location in East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China/518128



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*ek	IEC 60598-2-3	And tek anbotek Anbo	-X
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	notek anbore And tok nbore	Anbo	Anbore
3.2 (0)	GENERAL TEST REQUIREMENTS		Anbotek
3.2 (0.1)	Information for luminaire design considered::	Yes ⊠ No □	_
3.2 (0.3)	More sections applicable	Yes □ No ⊠	_
- o\-	-botek Anbo	Art boten Anbo	LOY
3.4 (2)	CLASSIFICATION OF LUMINAIRES	0.00	001
3.4 (2.2)	Type of protection:	Class III	Aupole.
3.4 (2.3)	Degree of protection:	IP66	Anusten
3.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes ⊠ No □	
3.4 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
Aupore	Luminaire for rough service:	Yes □ No ⊠	_
3.4 (-)	Modes of installation of road or street lighting	Anbores Ann	_
Anborek	a) on a pipe	Yes ☐ No ⊠	_
k Aupo	b) on a mast arm	Yes ⊠ No □	_
otek An	c) on a post top	Yes □ No ⊠	_
hotek	d) on span or suspension wires	Yes □ No ⊠	_
hotek	e) on a wall	Yes □ No ⊠	_
Pre-	above And Andrew Anbox	All solver Abover	'Up
3.5 (3)	MARKING	N2	Vupo,
3.5 (3.2)	Mandatory markings	octek Anbo ak hotek	, Poole
otek Anl	Position of the marking	On the enclosure	P _{Anbo}
abotek	Format of symbols/text	anbotek Anbore Att	rek P an
3.5 (3.3)	Additional information	Anborek Anbore Am	~ote∀P
A botek	Language of instructions	English	P
3.5 (3.3.1)	Combination luminaires	ok hotek Anbote	Am N tek
3.5 (3.3.2)	Nominal frequency in Hz	o ak hotek Amboten	N ^A
3.5 (3.3.3)	Operating temperature	Arbotek Anbotek	Namba
3.5 (3.3.4)	Symbol or warning notice	Anbores Ann orek anbo	N An
3.5 (3.3.5)	Wiring diagram	Anbores Ans	po ^{telle} P
3.5 (3.3.6)	Special conditions	k Anbotek Anbourek	nbo'N
3.5 (3.3.7)	Metal halide lamp luminaire – warning	of all Anbotek Anbo	Nach
3.5 (3.3.8)	Limitation for semi-luminaires	hotek Anbotek Anbos	Nabote
3.5 (3.3.9)	Power factor and supply current	botek Anbotek Anbor	N N
3.5 (3.3.10)	Suitability for use indoors	Arm sek anbotek Anbot	N Y



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-tok	IEC 60598-2-3	Ann atek anbotek Anbo	N. Bir.
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	And Anbore And And Anbotek	Anbu k k stotek	Anbore
3.5 (3.3.11)	Luminaires with remote control	Aupor Ali notek	AT Notes
3.5 (3.3.12)	Clip-mounted luminaire – warning	hotek Anbore Answerk	Nabote
3.5 (3.3.13)	Specifications of protective shields	botek Anbote And	ok N no
3.5 (3.3.14)	Symbol for nature of supply	hotek Anbotek Anb	nek P
3.5 (3.3.15)	Rated current of socket outlet	An hotek Anhotek An	N
3.5 (3.3.16)	Rough service luminaire	And work Anbotek	Anbo Nek
3.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	type Y	Ante Amborel
3.5 (3.3.18)	Non-ordinary luminaires with PVC cable	botek Anboten Anb	K N nb
3.5 (3.3.19)	Protective conductor current in instruction if applicable	Anbotek Anbotek Anb	otek N
3.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	Anborek Anborek	inbotek
3.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	non-user replaceable light	Anborek Anborek
otek Pup,	Cautionary symbol	Anborek Anbor Anbore	PAnbo
3.5 (3.3.22)	Controllable luminaires, classification of insulation provided	Anbotek Anbotek Anb	Hek P AT
3.5 (3.4)	Test with water	Rubbed lightly for 15 s with a piece of cloth soaked with water	nbore P Anborek
r Man	Test with hexane	For a further 15 s	PP
Pun.	Legible after test	Alpoie Augustek augotek	PAnbo
nbore A	Label attached	Anbores Ann otek Anbo	LOK P WU
3.5 (-)	Additional information in instruction leaflet	See below	ibote ^k P
Anbores	a) Design attitude	k Anbotek Anbo	n popole
Anbotek	b) Weight	olek Anbotek Anbo	Potek
tek anboi	c) Overall dimensions	otek Anbotek Anbo	Paboti
otek or	d) Maximum projected area if applicable	otek anbotek Anbos	P P
ibe stek	e) Cross-sectional area of wires if applicable	Anbotek Anbotek Anbo	Р
Aupo	f) Suitability for indoors use	Anto Jek Anborek Ar	N
Aupo.	g) Dimensions of the compartment	Anbo tek abotek	Anboren
Aupo.	h) Torque setting to be applied to bolts or screws	Anto tek abotek	PUBOTON .
Sk Vupou	i) Maximum mounting height	12m	Pulpose



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Por	Anbotek Anbotek	IEC 60598-2-3	Anbore ek Ant	Anborek Anbo
Clause	Requirement - Test	k hotek Anbotek	Result - Remark	Verdict

Clause	requirement - rest	Nesuit - Nemaik	Verdici
Anbo.	And Anbote And tok botek	Anbo	Anbore
3.6 (4)	CONSTRUCTION		Anbotek
3.6 (4.2)	Components replaceable without difficulty	otek Anboten Anbo	Pubot
3.6 (4.3)	Wireways smooth and free from sharp edges	botek Anboten Anb	P P
3.6 (4.4)	Lampholders	Anbotek Anbotek Anbo	*ek
3.6 (4.4.1)	Integral lampholder	Ann otek Anbotek An	N
3.6 (4.4.2)	Wiring connection	Vup viek vupotek	Anbo N
3.6 (4.4.3)	Lampholder for end-to-end mounting	And tek anbotek	PUN.
3.6 (4.4.4)	Positioning	oten Anbotek	Nipoli
potek Anb	- pressure test (N):	upotek Aupo, tek upot	N
Anbotek A	After test the lampholder comply with relevant standard sheets and show no damage	Anbotek Anbotek Ant	otek N
Anbotek Anbotek	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	Anbotek Anbotek	Anbotek
No.	- bending test (N)	ok hotek Anbotes	N
obotek A	After test the lampholder have not moved from its position and show no permanent deformation	nbotek Anbotek Anbote	N Am
3.6 (4.4.5)	Peak pulse voltage	abotek Anbore And	-otel
3.6 (4.4.6)	Centre contact	hotek Anbotes A	N
3.6 (4.4.7)	Parts in rough service luminaires resistant to tracking	lek Anbotek Anbotek	Ant N Anbotek
3.6 (4.4.8)	Lamp connectors	botek Anbor An hotel	N _{anb} c
3.6 (4.4.9)	Caps and bases correctly used	storek Anbore Ant	e ^N N _N
3.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way	Anbotek Anbotek Ant	botekN
3.6 (4.5)	Starter holders	Aupon K Pun	AnboN
Anbore	Starter holder in luminaires other than class II	ek Aupore, Wiek	Notes.
tek Anbo	Starter holder class II construction	ootek Anbore Ame otek	Nabo
3.6 (4.6)	Terminal blocks	hotek Anbores And	ek N
-orek	Tails And Andrew Andrew	Ambotek Anbotek Anbo	*ekN
Am	Unsecured blocks	Anti-	N
3.6 (4.7)	Terminals and supply connections	And otek unbotek	Vupor-
3.6 (4.7.1)	Contact to metal parts	And tek abotek	PUN
3.6 (4.7.2)	Test 8 mm live conductor	lotek Pupo. by upotek	Nupos
botek Ant	Test 8 mm earth conductor	unbotek Anbor Anbor hot	K N AN
3.6 (4.7.3)	Terminals for supply conductors	abotek Anbote Anb	otel N
P U	10/2 May 10/2	h. / 146, 04,	



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Yor	IEC 60598-2-3	All stek suboter And	- No.
Clause	Requirement - Test	Result - Remark	Verdict
0.0 (4.7.2.4)	Wolfe discass and so discass and so the sign	Anbotek Anbotek	Anbor
3.6 (4.7.3.1)	Welded method and material	And otek andotek	N
W. Wipo.	- stranded or solid conductor	otek Anbo kek nbotek	Naboti
otek ant	- spot welding	Aupotek Aupor Air	N N
abatek	- welding between wires	Antiotek Antione An	N
A. Botek	- Type Z attachment	W. Voolek Vupoje, Vu	N
VII.	- mechanical test according to 15.6.2	k hotek knbotek	Anto N
Aur	- electrical test according to 15.6.3	And seek anbotek	MON
V. Villa	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	oren And	Nipor
3.6 (4.7.4)	Terminals other than supply connection	upotek Aupo, by	K N Anb
3.6 (4.7.5)	Heat-resistant wiring/sleeves	upotek Vupor VI	N York
3.6 (4.7.6)	Multi-pole plug	abotek Anbote Am	N
	- test at 30 N	hotek Anboten	N _{ek}
3.6 (4.8)	Switches	k hotek Anbotek	Public N
Vun	- adequate rating	ore And otek Anbotek	N
Vie. Yun	- adequate fixing	upote, Vupo	NAmb
botek A	- polarized supply	Anboren Anbon Lek ab	orek N P
Anbotek	- compliance with IEC 61058-1 for electronic switches	Ambotek Ambotek	nbote ^N
3.6 (4.9)	Insulating lining and sleeves	And stek anbotek	Aupore ak
3.6 (4.9.1)	Retainment	iek Anbi	PP
lek Aupo	Method of fixing:	Form part of luminaire	PAnbo
3.6 (4.9.2)	Insulated linings and sleeves:	anbotek Anbor Ali	iek bi
Anbotek	Resistant to a temperature > 20 °C to the wire temperature or	Anbotek Anbotek An	botekN
Aupo.	a) & c) Insulation resistance and electric strength	Anbo tek abotek	Anbon V
Aupo,	b) Ageing test. Temperature (°C)	ek Pupo, by potek	N
3.6 (4.10)	Double or reinforced insulation	thotek Anbore An	nbol
3.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	Anbotek Anbotek Anbo	N M
Augs *8k	Safe installation fixed luminaires	Anbe tek nbotek Ar	N
Anto	Capacitors and switches	Anto Al abotek	Anboten
k Anbote	Interference suppression capacitors according to IEC 60384-14	otek Anbotek Anbotek	A.N.
3.6 (4.10.2)	Assembly gaps:	tek upotek Aupote	×
0, 01,	- not coincidental	Yupo, M. Potek Pupot	N



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, ek	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdict
Aupo	And tak above And tak above	Anbo	Anbore
Anbore.	- no straight access with test probe	stek Anbore And	Motek
3.6 (4.10.3)	Retainment of insulation:	hotek Anboten Anbo	-nbote
cotek Ani	- fixed	hotek Anbotek Anbo	N N
otek	- unable to be replaced; luminaire inoperative	And Anbotek Anbo	N N
And	- sleeves retained in position	Anti-	N
Aupo	- lining in lampholder	Anbo tek nbotek	Aupos N
1.6 (4.10.4)	Protective impedance device	tek Anbu tek abotek	ALC NOTES
potek Aupo	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	hotek Anbotek Anbotek	N Posts
Anboten I	Y1 or Y2 capacitors comply with IEC 60384-14	Anbotes And otek onto	otek N p
Anbotek	Resistors comply with test (a) in 14.1 of IEC 60065	Anbotek Anbotek	mbo*Ň
3.6 (4.11)	Electrical connections and current-carrying part	is And notek Anbotek	Pupo.
3.6 (4.11.1)	Contact pressure	otek Anbotek	P
3.6 (4.11.2)	Screws:	Anbotek Anbotek Anbote	Pupo
inbotek A	- self-tapping screws	Anbotek Anbo tek nb	Helt P A
Anborek	- thread-cutting screws	anbotek Anbo. A.	Nerocc
3.6 (4.11.3)	Screw locking:	k anbotek Anbor A	hotek
k nbotek	- spring washer	tek abotek Anbote	Potek
rok wo	- rivets	ok abotek Anbote	N
3.6 (4.11.4)	Material of current-carrying parts	Albo, ak Potsk Wupots	PARE
3.6 (4.11.5)	No contact to wood or mounting surface	Anbore An borek Anbe	P AT
3.6 (4.11.6)	Electro-mechanical contact systems	Anbore Ant work	boterN
3.6 (4.12)	Screws and connections (mechanical) and gland	ds Anbore And Orek	Anbatek
3.6 (4.12.1)	Screws not made of soft metal	olek Anboten Anb	Borek
tek Anbol	Screws of insulating material	otek Anbotek Anbo.	Pabot
ipotek An	Torque test: torque (Nm); part	: 2.89mm, 0.5Nm for fixed LED PCB	ek P Ani
Anbotek	Torque test: torque (Nm); part	: 2.91mm, 0.5Nm for fixed LED diffuse	porek P Anbotek
Anbores	Torque test: torque (Nm); part	Anbores Anbores	N
3.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal	hotek Anboten Anbo	Nabote
3.6 (4.12.4)	Locked connections:	notek Anbotek Anbor	FK 0/0
. ok	- fixed arms; torque (Nm)	Yun Polek Vupo,	N N



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Clause	Requirement - Test	Result - Remark	Verdict
Anboten	And Alborek Anborek	Anbotes And Lotek	anbotek
Anbores	- lampholder; torque (Nm)	ak Anbores Anborek	Nek
anbot	- push-button switches; torque 0,8 Nm	otek Anboter Anb	Nabot
3.6 (4.12.5)	Screwed glands; force (Nm)	botek Anbotek Anbo	N N
3.6 (4.13)	Mechanical strength	Anbotek Anbotek Anbo	P
3.6 (4.13.1)	Impact tests:	And Lotek Anbotek An	P
Aug. Otek	- fragile parts; energy (Nm)	0.35Nm, LED cover	Anbo. P
Anti	- other parts; energy (Nm)	0.5Nm, Metal enclosure	AUD.
Anbe	a) live parts	oter And otek	B _{/post}
otek but	b) linings	inbotek Anbo tek inbote	K N Ant
nbotek	c) protection	Aupotek Aupo	otel P
nbotek	d) covers	unpotek Aupon An	4 Your
3.6 (4.13.3)	Straight test finger	L anbotek Anbot	Nex
3.6 (4.13.4)	Rough service luminaires	stek shotek Anbore	Note
rek ab	- IP54 or higher	tek abotek Anbote	N
10/4 P	a) fixed	noo lek abotek Anbore	N
upo. b	b) hand-held	Anbo Lek abotek Anb	N
Anbore	c) delivered with a stand	Anbo sk shotek	nbore N
Anborek	d) for temporary installations and suitable for mounting on a stand	ek Anbotek Anbotek	AnbN
3.6 (4.13.6)	Tumbling barrel	stek anbotek Anbore	N
3.6 (4.14)	Suspensions, fixings and means of adjusting	upo tek upotek Aupote	A P
3.6 (4.14.1)	Mechanical load:	Ando sek abotek Anbo	Р
Anbore	A) four times the weight	6.93kg*4	P P
Anbore	B) torque 2,5 Nm	2.5Nm	Anbore
Pupos	C) bracket arm; bending moment (Nm)	ek Aupon botek	Notes
ek Anbo	D) load track-mounted luminaires	potek Anbots And botek	Ninbo
potek An	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	Anbotek Anbout	e ^N N pr
Anbo	Metal rod. diameter (mm)	Anbo sek abotek An	N
Anbotek	Fixed luminaire or independent control gear without fixing devices	K Anbotek Anbotek	Anborek
3.6 (4.14.2)	Load to flexible cables	otek anbotek Anbotek	N
rek al	Mass (kg)	tek upotek Aupote	N
,o	Stress in conductors (N/mm²)	rupo, by otek aupo,	N



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Clause	Requirement - Test	Result - Remark	Verdict
Anbotek	atek Anborek Anbore Alli	k Anbotek Anbo	Anborek
Anbore	Mass (kg) of semi-luminaire	orsk Aupoter Aupo	Notek
ak Anboth	Bending moment (Nm) of semi-luminaire	Notek Anbotes Anbo	Nabot
3.6 (4.14.3)	Adjusting devices:	anbotek Anbotek Anbot	ek 21
otek	- flexing test; number of cycles	Ann otek Anbotek Anbo	N N
Aug otek	- strands broken	And wotek Anbotek An	N
Anbanatek	- electric strength test afterwards	And otek Anbotek	Anbo N
3.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	totek Anbotek Anbotek	Anhore
3.6 (4.14.5)	Guide pulleys	hotek Anbotek Anbo	K N
3.6 (4.14.6)	Strain on socket-outlets	Anbotek Anbotek Anbo	, N
3.6 (4.15)	Flammable materials	Ann otek Anbotek An	, ok
Aug	- glow-wire test 650°C	.: See Test Table 3.15 (13.3.2)	Pupper Pok
Anso	- spacing ≥30 mm	tek Anbotek	AntoN
Anb	- screen withstanding test of 13.3.1	hibates And stek Anbotek	N
Hey And	- screen dimensions	Pupoter, Vupos	NAMO
nbotek A	- no fiercely burning material	Anbotek Anbo tek anb	orek P p
Anborek	- thermal protection	Anborek Anbo. Anbo.	Nerode
Anbotek	- electronic circuits exempted	ek Anbotek Anbo	Ne Ne
3.6 (4.15.2)	Luminaires made of thermoplastic material with lam	np control gear	-totel
sek nabo	a) construction	otek Anbotek Anbo	N
rek ve	b) temperature sensing control	Arthur otek Anborek Anbore	N
'rek	c) surface temperature	Anbu tek anbotek Anb	N
3.6 (4.16)	Luminaires for mounting on normally flammable	e surfaces	N.
Anbo	No lamp control gear	.: (compliance with Section 12)	Aupolo
3.6 (4.16.1)	Lamp control gear spacing:	potek Anbor ek photek	V470016
ek Aupo.	- spacing 35 mm	Anborek Anbor Anborek	Ninbo
botek An	- spacing 10 mm	anbotek Anbot Anbot	ek N pr
3.6 (4.16.2)	Thermal protection:	anbotek Anbote Ano	notek
abotek	- in lamp control gear	k anbotek Anbotan Ar	N-
abotek	- external	Anbores Anbores	Nek
ok hote	- fixed position	ok spotek Aupotes	N
Vale Pro	- temperature marked lamp control gear	inbo Ak hotek Anbores	N
3.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N An



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-tel-	IEC 60598-2-3	Ari tek mboten Anbo	- Ve
Clause	Requirement - Test	Result - Remark	Verdic
Anbo.	Anborek Anborek Anborek	Anbo rek Anbotek	Anbore
3.6 (4.17)	Drain holes	tek Aupo, by butek	N
ak Aupon	Clearance at least 5 mm	botek Anbor Ali potek	Nabo
3.6 (4.18)	Resistance to corrosion	botek Anbote And	N
3.6 (4.18.1)	- rust-resistance	Anbotek Anbote And	N Yes
3.6 (4.18.2)*	- season cracking in copper	Antotek Anbotek Ant	N
3.6 (4.18.3)	- corrosion of aluminium	An work Anborek	Anbe Nok
3.6 (4.19)	Ignitors compatible with ballast	and otek Anbotek	MAN
3.6 (4.20)*	Rough service vibration	potek Andorek	Nipo
3.6 (4.21)	Protective shield	Anboten Anbote	K An'
3.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	Anbotek Anbotek Anb	otek N
	Shield of glass if tungsten halogen lamps	And Anborek	upo N
3.6 (4.21.2)	Particles from a shattering lamp not impair safety	Ann otek Anbotek	AribN
3.6 (4.21.3)	No direct path	oter And tek anbotek	Noor
3.6 (4.21.4)	Impact test on shield	hotek Anber ek hotel	Negt
nbotek A	Glow-wire test on lamp compartment	: See Test Table 3.15 (13.3.2)	N Stell
3.6 (4.22)	Attachments to lamps not cause overheating or damage	Anbotek Anbotek A	Nerodn
3.6 (4.23)	Semi-luminaires comply Class II	And stek ambotek	Anbon .
3.6 (4.24)	Photobiological hazards	ofer And stek anbotek	PN
3.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	botek Anbotek Anbotek	Anb
3.6 (4.24.2)	Retinal blue light hazard	Ann Lotek Anbotek Anbo	*ek
Anborek	Class of risk group assessed according to IEC/TR 62778	Anbotek Anbotek Ar	_
Anbore	Luminaires with Ethr:	stek Anbore. And orek	Notel
ek Anbot	a) Fixed luminaires	notek Anboten Anb	N
otek an	- distance x m, borderline between RG1 and RG2	hotek Anbotek Anbe	N N
otek	- marking and instruction according 3.2.23	Ant otek Anbotek Anbo	N
Ann	b) Portable and handheld luminaires	And otek Anbotek An	N
Anbotek	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	Anbotek Anbotek	Anborek
otek Anbot	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	hotek Anbotek Anbotek	N Arbo





3.6 (4.29)

3.6 (4.30)

3.6 (4.31)

loc No.	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdict
Anbore	Anbotek Anbotek Anbotek	Anbote Ant Lotek	Anborek
3.6 (4.25)	Mechanical hazard	ak Anbore, And	An Botek
ek Anbot	No sharp point or edges	otek Anboten Anbo	Pobot
3.6 (4.26)	Short-circuit protection	hotek Anbotek Anbo	N
3.6 (4.26.1)	Adequate means of uninsulated accessible SELV parts	Anbotek Anbotek Anbo	otek N
3.6 (4.26.2)	Short-circuit test with test chain according 4.26.3	Anbotel And stek	nbot N
Anbotek	Test chain not melt through	k Anbotek Anbo	Nek
anbott	Test sample not exceed values of Table 12.1 and 12.2	otek Anbotek Anbotek	Nanbore
3.6 (4.27)	Terminal blocks with integrated screwless earthing	ng contacts	N Anh
Anboter	Test according Annex V	Anboten And	otek N
Anbotek	Pull test of terminal fixing (20 N)	Anboten Anbo	nboteN
anbotek	After test, resistance < 0,05 Ω	k Anbotek Anbo	Nek
k Anbote	Pull test of mechanical connection (50 N)	tek Anbotek Anbo.	Note
otek onb	After test, resistance < 0,05 Ω	otek Anbotek Anbo	N
rek .	Voltage drop test, resistance < 0,05 Ω	nto tek anbotek Anbot	N
3.6 (4.28)	Fixing of thermal sensing control	Aupo, tek upotek Vup	N
Anbou	Not plug-in or easily replaceable type	Anbo. A potek	N
Aupor	Reliably kept in position	Anbo ok potek	AnbN
tek Aupon	No adhesive fixing if UV radiations from a lamp can degrade the fixing	tek Anbotek Anbotek	Note
rek .	Not outside the luminaire enclosure	in tek Anborek Anbore	N
upo k	Test of adhesive fixing:	Anbu tek abotek Anbu	N
Anbo.	Max. temperature on adhesive material (°C):	Anbo. Ak shotek A	N
Anbor	100 cycles between t min and t max	Anbo, Air otek	VUP N

Shenzhen Anbotek Compliance Laboratory Limited

opened by hand or tools

electric shock risk" symbol: Minimum two fixing means

Insulation between circuits

Ν

Temperature sensing control still in position

Not possible to replace light source

Luminaires with non-replaceable light source

Live part not accessible after parts have been

Luminaires with non-user replaceable light source

If protective cover provide protection against electric shock and marked with "caution,



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Yaras	IEC 60598-2-3	Anbotek Anbotek Anb	-well
Clause	Requirement - Test	Result - Remark	Verdic
Anbe	abotek Anbort All Lotek Anbotek	Anbo sek shotek	Anbore
k Anbor	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	ak Anborek Anborek	AmBoren
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3		N ^{ntr} otek An
3.6 (4.31.1)	SELV circuits	Aupotek Aupo	abot P
anbotek	Used SELV source	k Aupotek Aupot	Brek
k abote	Voltage ≤ ELV	rek nbotek Anbote	P
to Alex	Insulating of SELV circuits from LV supply	sek aborek Anbore	N
nbotek	Insulating of SELV circuits from other non SELV circuits	Anbotek Anbotek Anbot	otek P Am
anbotek	Insulating of SELV circuits from FELV	Anbotek Anbote Att	Neton
nbotek	Insulating of SELV circuits from other SELV circuits	anbotek Anbote	Nek
Anbote	SELV circuits insulated from accessible parts according Table X.1	stek Anbotek Anbotek	Anbote Anbote
itek Anb	Plugs not able to enter socket-outlets of other voltage systems	nbotek Anbotek Anbote	N And
Anbotek	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek Anb	N
Anboten	Plugs and socket-outlets does not have protective conductor contact	Anbores Anborek	Anb Nek
3.6 (4.31.2)	FELV circuits	Anbotek Anbotek	N
Variation Williams	Used FELV source	bote And stek Anbotel	Nanbi
poter. A	Voltage ≤ ELV	Anborer Anb	lek N b
Anbotek	Insulating of FELV circuits from LV supply	Anbotek Anbo	ote ^k N
Anbotek	FELV circuits insulated from accessible parts according Table X.1	Anbotek Anbotek	Anbe N ^k
ek Anbo	Plugs not able to enter socket-outlets of other voltage systems	notek Anbotek Anbotek	N
potek Ar	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek Anbo	ek N
Anborek	Socket-outlets does not have protective conductor contact	Anbotek Anbotek Ar	orek N
3.6 (4.31.3)	Other circuits	ak abotek Anboten	N _{tek}
ik Yupot	Other circuits insulated from accessible parts according Table X.1	otek Anbotek Anbotek	Ambo
otek An	Class II construction with equipotential bonding for procontacts with live parts:	rotection against indirect	ek N pr



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Clause	Requirement - Test	Result - Remark	Verdic
Anboren	tek anbotek Anbore All hotel	Anboren Anboatek	anborek
Anbotek	- conductive parts are connected together	anbores Anbores	Notek
k Anbo	- test according 7.2.3	otek Anbotek Anbo.	Nabo
otek An	- conductive part not cause an electric shock in case of an insulation fault	Anbotek Anbotek Anbo	rek N An
upote.	- equipotential bonding in master/slave applications	Anbores Anso stek	potek N
Anbotek	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	Anbotek Anbotek	Anbo'N
Y WOA	- slave luminaire constructed as class I	k hotek Anbotek	PUN .
3.6 (4.32)	Overvoltage protective devices	iboten And otek Anbotek	Nupo
Ster Will	Comply with IEC 61643-11	inbotes. And stek anbot	ek N Ant
nbotek	External to controlgear and connected to earth:	Aupotek Auro, by	otek N
anbotek	- only in fixed luminaires	Anbotek Anbor An	abor N
anbotek	- only connected to protective earth	er upotek Aupon	Nek
3.6.1 (-)	At least IP X3 or X5 respectively. IP:	IP66	Pnote
you you	Column-integrated luminaires:	nek abotek Anbore	N
*ak	- parts below 2,5 m. IP:	Anbore Anbore	N
100	- parts above 2,5 m. IP:	Anbo. Ak shotek Ant	N
3.6.2 (-)	Suspension on span wires	Anbor ak hotek	nbote N
3.6.3 (-)	Means for attaching the luminaire or external parts to its support appropriate to the weight	ek abotek Anbotek	Anb Pen
3.6.3.1 (-)	Static load test	tek abotek Anbote	P
ak Ar	- drag coefficient:	Albo, Wy Projek Wupote	PARE
001 P	- loaded area (m²):	Anbors Anb	oler P
Anbore	- used load (N):	Anbore And Lotek	I Potek
Anbore,	- measured deformation (cm/m):	k Anbore And Otek	anboP ^{IK}
Anboten	- no rotation	olek Anboten Anbotek	Potek
3.6.4 (-)	Adjustable lampholders	notek Anboten Anbo	N
3.6.5 (-)	Luminaires installed above 5 m, glass covers shall l	be: Manager Manager	N
Anbotek	a) glass that fractures into small pieces (test according to 3.6.5.1), or	Anbotek Anbotek Anbo	potek N
Anbotek	b) glass having a high impact shock resistance (tes according to 3.6.5.2), or	t Anbotek Ambotek	Anbo N ^k
k Anbo	c) protected by any means to retain glass fragments	botek Anbotek Anbotek	And N
orek an	For tunnel luminaires 3.6.5.1 apply	hotek Anbotes Anbo	N N
*ek	Method of protection declared by the manufacturer	Arek aboyet Anbo	V- N



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p- tek	IEC 60598-2-3	Anborek Anborek	"K VIII.
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	ntek Anbore And isk aborek	Aupo, K. Potek	Anbore
3.6.5.1 (-)	Protection by the use of glass that fractures into sma	Il pieces	Moter
ak Anbote	- number of particles is more than 40:	otek Anbotes And	Nabote
3.6.5.2 (-)	Protection by the use of high impact resistant glass	Lotek Anbotek Anb	N N
3.6.5.2.1 (-)	Glass covers have high mechanical strength	And Lotek Anbotek Anbo.	N
	Test according IEC 62262 with test apparatus according IEC 60068-2-75 with impact energy of 5J on preconditioned sample		Anbotek Anbotek
3.6.5.2.2 (-)	Glass covers not break into large pieces	K hotek Anboten	ANN FO
otek Anb	- test according 3.6.5.1, number of particles is more than 20:	ore Anbotek Anbotek	N Anbe
3.6.6 (-)	Connection compartment of column-integrated lumin	aire	N N
wo tek	- provides adequate space	Antotek Anboten Ant	N
An	- means for attachment	Anbotek Anbotek	Wps N
Ann	- means for attachment of metal corrosion-resistant	And otek Anbotek	AntoNk
3.6.7 (-)	Compliance with ISO standard or other:	are And tek Anbotek	N
3.6.8 (-)	Doors of column-integrated luminaires:	nboten Anto tek nbotel	N Anbo
upotek Ar	- corrosion-resistant	anbotek Anbo sek ab	stell N A
anbotek	- opening only possible for an authorized person	anbotek Anbot Ak	Neton
abotek	- impact test 5 Nm	abotek Anbot A	N.
botek	- sample show no damage	ek storek Anbore	N sek
3.6.9 (-)	Column-integrated luminaire:	ok bojek Anbojes	N
tree Brown	- dimension of the cable entry slot (mm):	both Antotek Anbotek	NAME
hotek An	- cable path from the slot to the connection compartment (mm):	Anbotek Anbotek Anbo	hotek
Anbotek	- cable path free from obstruction that might cause abrasion of the cable	Anbotek Anbotek An	AnboNK
Anbo.	k botek Anbote And ntek anbot	er Anbo ak abotek	Anbore.
3.7 (11)	CREEPAGE DISTANCES AND CLEARANNES		PAnbote
2.7 (4.4.2)	Consequence Miller and a series and also serves and also serve	Coo Toble 2.7 (11.2)	100

3.7 (11)	CREEPAGE DISTANCES AND CLEARANNES		PAnbor
3.7 (11.2)	Creepage distances and clearances	: See Table 3.7 (11.2)	ek An'
Anbotek	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1)	Category II Category III	_

3.8 (7)	PROVISION FOR EARTHING	An Notes
3.8 (7.2.1 + 7.2.3)	Accessible metal parts	k Nupote
upo bek	Metal parts in contact with supporting surface	N Amb





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	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdic
Anbore	Aug tok aupotes Aug tok apotek	Anbor M. Lotek	Aupoles
Anbore.	Resistance < 0,5 Ω	anbore, And	Motek
K Anbot	Self-tapping screws used	otek Anboten And otek	Nabo
otek Ant	Thread-forming screws	botek Anboten Anbo	N
-otek	Thread-forming screw used in a grove	Anbotek Anbotek Anbo	N
inn	Earth makes contact first	Ant otek Anbotek An	N
Anbotek	Terminal blocks with integrated screwless earthing contacts tested according Annex V	k Anbotek Anbotek	AnborN Anborek
k Anbore	Protective earthing of the luminaire not via built-in control gear	otek Anbotek Anbotek	Nant
3.8 (7.2.2 - 7.2.3)	Earth continuity in joints, etc.	upotek Anbotek Anbot	otek N An
3.8 (7.2.4)	Locking of clamping means	Anborek Anbore An	N
Ar. Hotek	Compliance with 4.7.3	Anbotek Anboten	N. N.
Anbotel	Terminal blocks with integrated screwless earthing contacts tested according Annex V	tek Anbotek Anbotek	Anbor Anbor
3.8 (7.2.5)	Earth terminal integral part of connector socket	botek Anbote And	L N N
3.8 (7.2.6)	Earth terminal adjacent to mains terminals	botek Anbote And	N N
3.8 (7.2.7)	Electrolytic corrosion of the earth terminal	Antotek Anboten Ant	N
3.8 (7.2.8)	Material of earth terminal	Ann anbotek	N _k
Ano	Contact surface bare metal	And otek Ambotek	AnbN
3.8 (7.2.10)	Class II luminaire for looping-in	ter Ann tek abotek	PN
Sr. Vupo	Double or reinforced insulation to functional earth	poter Ando sek abotel	Namb
3.8 (7.2.11)	Earthing core coloured green-yellow	Anbotek Anbo. Anbo. An	N P
upotek	Length of earth conductor	Anbotek Anbot Ant	hote ^N N
3.8.1 (-)	Attachment prevented from rotation	hotek Anbota A	N

3.9 (14) SCREW TERMINALS			AUD
Die Die	Separately approved; component list	(see Annex 1)	Namba
hpore	Part of the luminaire	(see Annex 3)	N An

3.9 (15)	3.9 (15) SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		Anbotek.
Anboren	Separately approved; component list	(see Annex 1)	Nick
rek anbote	Part of the luminaire	(see Annex 4)	Note



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		IEC 60598-2-3		
Clause	Requirement - Test	And otek unbotek	Result - Remark	Verdict

3.10 (5)	EXTERNAL AND INTERNAL WIRING	36 to 12	an bo tek
3.10 (5.2)	Supply connection and external wiring	Lotek Anboten Anbo	Pabote
3.10 (5.2.1)	Means of connection	otek unbotek Anbor	_k P
Anbotek A	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 Anbotek An	otek P
3.10 (5.2.2)	Type of cable	ok botek Anbotes	And Potek
ek Motel	Nominal cross-sectional area (mm²)	: 2*1.5 mm²	AMP He
And	Cables equal to IEC 60227 or IEC 60245	kore And Lotek Anborek	Aupo
3.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P Anb
3.10 (5.2.5)	Type Z not connected to screws	Anboren Anti	otek N P
3.10 (5.2.6)	Cable entries:	Anbotek Anbo	abot P
Anbotek	- suitable for introduction	ak Anbotek Anbo	Bek
ik anbotek	- adequate degree of protection	wek anbotek Anbot	Potel
3.10 (5.2.7)	Cable entries through rigid material have rounded edges	Anbotek Anbotek Anbon	P
3.10 (5.2.8)	Insulating bushings:	Anborek Anbo	Helt P N
Anbotek	- suitably fixed	anbotek Anbo	P ^{lotote}
<i>upotek</i>	- material in bushings	h Vupotek Vupo, ek	Nex
k abotek	- material not likely to deteriorate	tek abotek Anbote	Notek
rak abot	- tubes or guards made of insulating material	tek abotek Anbote	N
3.10 (5.2.9)	Locking of screwed bushings	Thou and Aupotes	N
3.10 (5.2.10)	Cord anchorage:	Anbor An borek Anbo	P AT
Anbore	- covering protected from abrasion	Anbore An Morek A	boter P
Anbore	- clear how to be effective	Anbote And And	No Nik
Anbore	- no mechanical or thermal stress	anboten Anb	Borek
tek Anbote	- no tying of cables into knots etc.	notek Anboten Anbotek	Pobot
notek ant	- insulating material or lining	notek Anborek Anbo	P
3.10 (5.2.10.1)	Cord anchorage for type X attachment:	Anbotek Anbotek Anbo	potek
Anboren	a) at least one part fixed	Anbotes Anbo	N O
Anborek	b) types of cable	tak Anbotek Anbo	N
ek Anbote	c) no damaging of the cable	otek anbotek Anbos	Noote
atek ado	d) whole cable can be mounted	stek Anbotek Anbote	N
// h	e) no touching of clamping screws	Yupo,	N Page





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Oportor.	IEC 60598-2-3	Dipoter Page	notek
Clause	Requirement - Test	Result - Remark	Verdic
Ann	f) model consumed directly on cold	k hotek Antotek	Anbo
Ano	f) metal screw not directly on cable	And otek andotek	No N
an Anbe	g) replacement without special tool	otek Anbo tek anbotek	Nabol
potek Anto	Glands not used as anchorage	supotek Aupo, W.	N N
abotek f	Labyrinth type anchorages	antotek Antore An	N N
3.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Anbotek Anbotek An	N nbotek
3.10 (5.2.10.3)	Tests:	k Anbotek Anbotek	Aupotek
	- impossible to push cable; unsafe	ore Anabotek Anbotek	N
or Ver	- pull test: 25 times; pull (N):	inbot All abotek Anborr	N Pro
rupo. b	- torque test: torque (Nm):	Anbo. Ant	N
Aupola	- displacement 2 mm	Anbore k hotek	N ^{stodn}
Anboros	- no movement of conductors	Anbore Am	AUP NICH
k Aupoles	- no damage of cable or cord	stek Anbores Anbo	Noote
stek Anbo	- function independent of electrical connection	motek Anbotes Anbo	N
3.10 (5.2.11)	External wiring passing into luminaire	notek Anbotek Anbo	N N
3.10 (5.2.12)	Looping-in terminals	Ann otek Anbotek Anb	N
3.10 (5.2.13)	Wire ends not tinned	Anbotek anbotek	upo. N
Aupo.	Wire ends tinned: no cold flow	And sek abotek	Anb N
3.10 (5.2.14)	Mains plug same protection	lek Mupo. Py Potek	₽N ^P O ^N C
tek Vupo,	Class III luminaire plug	Potek Pupose Yun	Nanb
botek An	No unsafe compatibility	abotek Anbotes Anb	ek N
3.10 (5.2.16)	Appliance inlets (IEC 60320)	botek Anboien Ann	N
hotek	Installation couplers (IEC 61535)	hotek Anborek A	N
Anbotek	Other appliance inlet or connector according relevant IEC standard	ok Anbotek Anbotek	Amborek Amborek
3.10 (5.2.17)	No standardized interconnecting cables properly assembled	ootek Anborek Anborek	Nanto
3.10 (5.2.18)	Used plug in accordance with	Anbor All botek Anbo	N
Aupo.	- IEC 60083	Anbo. Ak botek Ar	N
Anbore	- other standard	Anbore Andrek	AnboiN
3.10 (5.3)	Internal wiring	ek Aupores, Yun	Arthorek
3.10 (5.3.1)	Internal wiring of suitable size and type	lotek Anboren Anborek	Pabo
otek anb	Through wiring	notek Anborek Anbor	» N
Lak P	- not delivered/ mounting instruction	Anton Anton	N N





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*ek	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdic
Anbo.	notek Anbore And tak store	k Anbo. In totek	Anbore
Anbore	- factory assembled	otek Aupore Aur otek	An Botel
ek Anbote	- socket outlet loaded (A)	Hotek Anbotes And	K N _{obo}
otek anb	- temperatures	.: (see Annex 2)	N N
otek p	Green-yellow for earth only	And Anbotek Anbotek	N
3.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring	And stek Anbotek A	who, b
Aupo	Cross-sectional area (mm²)	Anbo tek anbotek	Aupord P
Anbo.	Insulation thickness	Anbo sek abotek	An Pro
Vupo,	Extra insulation added where necessary	ntotek Anbo. A. botel	Nipot
3.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal	I current-limiting device	HEK PAN
inpotek Vi	Adequate cross-sectional area and insulation thickness	Anbotek Anbotek An	nt otek P
3.10 (5.3.1.3)	Double or reinforced insulation for class II	Anbo ak botek	NupoteN
3.10 (5.3.1.4)	Conductors without insulation	ter Pupo, or bush	ALL DE STEEL
3.10 (5.3.1.5)	SELV current-carrying parts	tokek Anbore K Am	Poot
3.10 (5.3.1.6)	Insulation thickness other than PVC or rubber	botek Anbore Ans	ek N
3.10 (5.3.2)	Sharp edges etc.	botek Anbotes Anb	New P
hotek.	No moving parts of switches etc.	Anbotek Anbotek Ar	P
Arra	Joints, raising/lowering devices	Ant notek anbotek	bupe. Nak
Ann	Telescopic tubes etc.	Ann otek Ambotek	Anb N
Aug	No twisting over 360°	note, Aug stek supotek	PP
3.10 (5.3.3)	Insulating bushings:	Anbotek Anbo	e ^k Panb
botek An	- suitable fixed	Anborek Anba. Anba.	ociek N
vupotek.	- material in bushings	Anbotek Anbour An	hotel N
abotek	- material not likely to deteriorate	ak abotek Anbote	N.
abotek	- cables with protective sheath	ek abotek Anbotes	Potel
3.10 (5.3.4)	Joints and junctions effectively insulated	ok hotek Anboren	P
3.10 (5.3.5)	Strain on internal wiring	Aroose Anbore	N
3.10 (5.3.6)	Wire carriers	Anbors Ant	N P
3.10 (5.3.7)	Wire ends not tinned	Anbores And	N Otek
Anborek	Wire ends tinned: no cold flow	k Anboten Anbo	Noo'N
3.10.1 (-)	Cord anchorage if applicable	otek Anbotek Anbo	N
k anbote	- pull test: 25 times; pull (N):	otek Anbotek Anbors	N ₃₀
rek w	- torque test: torque (Nm)	in the shorter Anbore	N





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Poter.	Anbotek Anbotek	IEC 60598-2-3	Anbotek Anbotek	Anbotek Anbo
Clause	Requirement - Test	Ans hotek Anbotek	Result - Remark	Verdict

3.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK		0000	
3.11 (8.2.1)	Live parts not accessible	otek anboten Ano	Р	,bot
potek Anb	Basic insulated parts not used on the outer surface without appropriate protection	Anbotek Anbotek Anbot	P	Anl
Anbotek Anbotek	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	Anbotek Anbotek An	o ^{tek} N	V
k Anborek	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	ek Anborek Anborek	ATIP ¹	bot!
otek Anbo	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	unbotek Anbotek Anbote	N	Anh
Anbotek	Basic insulation only accessible under lamp or starter replacement	Anbotek Anbotek Ant	N	
Anbore	Protection in any position	Anbote And otek	Nul Ne	3K
K Anboten	Double-ended tungsten filament lamp	otek Anboter And stek	N	ote
stek Anbo	Insulation lacquer not reliable	hotek Anboten Anbo	N	de
otek or	Double-ended high pressure discharge lamp	Anbotek Anbotek Anbo	N N	
Anbotek	Relevant warning according to 3.2.18 fitted to the luminaire	Anbotek Anbotek Anb	N	8
3.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position	Anborek Anborek	Anb Nº	y vel
3.11 (8.2.3.a)	Class II luminaire:	ore Annotek Anbotek	PUD	×
botek An	- basic insulated metal parts not accessible during starter or lamp replacement	abotek Anbotek Anbotek	N)	"Up.
Anbotek	- basic insulation not accessible other than during starter or lamp replacement	Anbotek Anbotes And	botelN	
Anborek	- glass protective shields not used as supplementary insulation	ek nbotek Anbotek	Anb N	n'ek
3.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed	potek Anbotek Anbotek	N	nbo
3.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:	unbotek Anbo ek bo	e ^{lk} P	D.C
abotek	Ordinary luminaire:	Anbotek Anbot At	notek P	
aborek	- voltage under load (V)	: 3.2V	P	1
hotek.	- no-load voltage (V)	ak abotek Anbores	P	rek.
r hotel	- touch current if applicable (mA)	ok hotek Anbotes	PUP	_1
bus.	One conductive part insulated if required	bote And stek Anbotek	Ñ	100
Joseph Vilp.	Other than ordinary luminaire:	anboren Amb	N	An



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-telk	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdict
Aupon	And Andrew And toke shorter	Anbo k kotek	Anbore
Anbore	- nominal voltage (V):	3.2VDC	No tek
anbote Anbote	Class III luminaire only for connection to SELV	otek Anboten Anbo	Pobot
otek Anb	Class III luminaire not provided with means for protective earthing	Anbotek Anbotek Anbot	ek N Ant
1.11 (8.2.4)	Portable luminaire have protection independent of supporting surface	Anbotek Anbotek Ant	otek N
3.11 (8.2.5)	Compliance with the standard test finger or relevant probe	k Anbotek Anbotek	Anbotek Anbotek
3.11 (8.2.6)	Covers reliably secured	otek Anbo ek abotek	Ribore
3.11 (8.2.7)	Luminaire other than below with capacitor $> 0.5~\mu F$ not exceed 50 V 1 min after disconnection	inbotek Anbotek Anbote	K N Anto
Anbotek	Portable luminaire with capacitor > 0,1 µF (0.25) not exceed 34 V 1 s after disconnection	Anbotek Anbotek Anb	N
Anbotek	Other luminaires with capacitor $>$ 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection	ntek Anbotek Anbotek	Anbore!

3.12 (12)	ENDURANCE TEST AND THERMAL TEST		10K
3.12.2 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 3.13		_
3.12 (12.3)	Endurance test:	k Aupon ok hotek	Anto P
otek Anbors	- mounting-position	Mounting according to the suggestion of manufacturer	_
inboter An	- test temperature (C)	35 °C	_
Anboren	- total duration (h)	240 h	_
Anboren	- supply voltage: Un factor; calculated voltage (V):	3.2V	_
Anbotek	- lamp used	Integral LED module	_
3.12 (12.3.2)	After endurance test:	notek Anbotek Anbo	
otek ant	- no part unserviceable	otek anbotek Anbo	P
up otek	- luminaire not unsafe	And otek Anbotek Anbo	P
Aup	- no damage to track system	Anbo stek anbotek An	N
Anbo	- marking legible	Anbo tek anbotek	Aupolo A
Anbo.	- no cracks, deformation etc.	ak Anbo. Ak abotek	AL POPE
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Puppor
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	ek N An
3.12 (12.6)	Thermal test (failed lamp control gear condition):	hotek Anbote And	sek N





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No.	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdict
Aupon	Anbote Annotes Ann	Aupon K Potok	Anbore
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		N
'r b''.	- case of abnormal conditions:	or Anboten	N
Pote N	- electronic lamp control gear	Anbore K Anbor	N An
Anbore	- measured winding temperature (°C): at 1,1 Un:	Anbore Ant antek ant	N
Anbotek	- measured mounting surface temperature (°C) at 1,1 Un	K Anbotek Anbotek	AnborN otek
ek hotel	- calculated mounting surface temperature (°C):	ak abotek Anbote	N N
ok M	- track-mounted luminaires	on Annotek Aupotes	N
3.12 (12.6.2)	Temperature sensing control	inpose K Wotek Aupote	And
Anbores P	- case of abnormal conditions	Anbore And	N
Anbore	- thermal link	Anbore And	nbot ^e N
Anboren	- manual reset cut-out	Anbotes Anbotes	Nek Nek
anbotek	- auto reset cut-out	rek Anborek Anbo	Notel
otek anbo	- measured mounting surface temperature (°C):	otek Anbotek Anbo	N
dek N	- track-mounted luminaires	nbotek Anbotek Anbote	N
3.12 (12.7)	Thermal test (failed lamp control gear in plastic lumin	aires):	- A
3.12 (12.7.1)	Luminaire without temperature sensing control	Anbe. Lek abotek A	Upor N
3.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	Anbotek Anbotek	Anto N
	Test method 12.7.1.1 or Annex W		_
otek on	Test according to 12.7.1.1:	otek Anbotek Anbo	N N
inb. stek	- case of abnormal conditions	Anbotek Anbotek Anbo	_
Aupo	- Ballast failure at supply voltage (V):	Anbotek Anbotek Ar	_
Vupo.	- Components retained in place after the test	Anbo sek shotek	Nodul
Aupon	- Test with standard test finger after the test	ek Anbo ek abotek	No.
yek Anbor	Test according to Annex W:	potek Aupon ok Protek	Nabo
abotek Anl	- case of abnormal conditions	abotek Anbote Ane	_
abotek	- measured winding temperature (°C): at 1,1 Un:	anbotek Anbotes Arth	_
Anbotek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Anbotek Anbotek An	_
tek Anbote	- calculated temperature of fixing point/exposed part (°C):	otek Anbotek Anbotek	_
-V. 10	Ball-pressure test:	See Table 3.15 (13.2.1)	N



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*ek	IEC 60598-2-3	All Anbotek Anbotek	- No.
Clause	Requirement - Test	Result - Remark	Verdict
Anbo	W. Whole Hung tok apolek	Anbo	Anbore
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 7	70W, transformer > 10 VA	AnDren
1- bi.	- case of abnormal conditions	Jon An botek Anboten	_
Pos Ni	- measured winding temperature (°C): at 1,1 Un	Anbors All Hotek Anbor	_
Anborek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Anbotek Anbotek An	_
Anbotek	- calculated temperature of fixing point/exposed part (°C)	k Anbotek Anbotek	_
ek Aupo	Ball-pressure test	See Table 3.15 (13.2.1)	Nipole
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	inbotek Anbotek Anbote	K N Aribe
Ann	- case of abnormal conditions	And Antotek Ant	_
Anna	- Components retained in place after the test	Anbe tek anbotek	'upo, N
Aupo	- Test with standard test finger after the test	Anbo sek abotek	Ant N
3.12 (12.7.2)	Luminaire with temperature sensing control	otek Anbo Lek abotek	Noote
otek Anbe	- thermal link	Yes No 🗆	_
upotek A	- manual reset cut-out	Yes No 🗌	_
nbotek	- auto reset cut-out	Yes No	_
abotek	- case of abnormal conditions	nbotek Anbote A	_
k Anbotek	- highest measured temperature of fixing point/ exposed part (°C):	tek Anbotek Anbotek	_
otek Anbo	Ball-pressure test:	100	N
3.12.1 (-)	Temperature reduction if for outdoor use only	Anbotek Anbo sek abo	N
3.12.2 (-)	(See above)	Anbotek Anbo. A.	_
3.12.3 (-)	Glass covers used within the thermal limits declared by the glass manufacturer	Anbotek Anbotek	N
Aup	ek anbotek Anbot Ak hotek Anbo	tek Anbotek	Aupor
3.13 (9)	RESISTANCE TO DUST AND MOISTURE		-Anbor
3.13.1 (-)	If IP > IP 20 the order of tests as specified in clause	3.12	ek Ant
3.13 (9.2)*	Tests for ingress of dust, solid objects and moisture:	Anbotek Anbo. Al.	otek
nbotek	- classification according to IP	IP66	
habotek	- mounting position during test	sk unbotek Anbote	_
iek abote	- fixing screws tightened; torque (Nm)	Normal installation	_
rek rk	- tests according to clauses	9.2.2 and 9.2.7	_
po. bu	- electric strength test afterwards	Aupon Mr. 18k upon	P Wur





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	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdic
Aupor	notek anbore And tok aborek	Anbo	Anbores
	a) no deposit in dust-proof luminaire	ak Anbores And Otek	Notek
4 Anbo	b) no talcum in dust-tight luminaire	otek Anboten Anbo	Pobo
stek Ar	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	Anbotek Anbotek Anbot	P AT
nbotek	c.1) For luminaires without drain holes – no water entry	Anbotek Anbotek An	o ^{tek} P
Anbotek	c.2) For luminaires with drain holes – no hazardous water entry	k Anbotek Anbotek	And N
ek Anbo	d) no water in watertight or pressure watertight luminaire	otek Anborek Anborek	P _{nbo}
-ak	e) no contact with live parts (IP 2X)	inbo tek abotek Anbot	N
po.	e) no entry into enclosure (IP 3X and IP 4X)	Anbo. Ant Morek Ant	N
Anborek	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	Anbotek Anbotek	inboteN hotek
Anbor	f) no trace of water on part of lamp requiring protection from splashing water	stek Anbotek Anbotek	Anbot Anbot
er Au	g) no damage of protective shield or glass envelope	hbotek Anbo. Lek bote	Pan
13 (9.3)	Humidity test 48 h	25C; 93% R.H.	rel P

3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STRE	NGTH	10 Jek
3.14 (10.2.1)	Insulation resistance test	ak botek Anbote	Ans P rek
otek Anbo	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	botek Anbotek Anbotes	_
abotek A	Insulation resistance (MΩ)	anbotek Anbote Am	_
abolek	SELV Andrew Andrew	abotek Anbore Ann	worke\P
photek	- between current-carrying parts of different polarity:	100 ΜΩ	P
Anbotek	- between current-carrying parts and mounting surface	100 ΜΩ	Anborek Anborek
otek Anbo	- between current-carrying parts and metal parts of the luminaire	100 ΜΩ	PAnbot
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 Anbo	potek N Am
Vue Utek	- Insulation bushings as described in Section 5	And otek anbotek	Anbo N .ak
Andr	Other than SELV	Anbotek anbotek	Vapo.
Vup.	- between live parts of different polarity	oter Anti-	Nupor
poter An	- between live parts and mounting surface	Pupotek Vupo, Vek Par	ok N And
abotek	- between live parts and metal parts	anbotek Anbo	otek N



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-xeV	IEC 60598-2-3	All tek anbotek Anbe	. AL
Clause	Requirement - Test	Result - Remark	Verdic
Aupo.	And	Anbo	Anbore
Anbore	- between live parts of different polarity through action of a switch	rak Anbotek Anbotek	Ambrek
otek An	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	Anbotek Ambotek Anbotek	N ^{mb}
'upo	- Insulation bushings as described in Section 5	Anbo tek anbotek An	N
.14 (10.2.2)	Electric strength test	Ando. A. abotek	Yupose.
Anbor	Dummy lamp	tek Aupo, Air spotek	An N Test
Aupor	Luminaires with ignitors after 24 h test	No ignitor	Nipo
yek Aut	Luminaires with manual ignitors	As above	e N pri
botek	Test voltage (V)	. abotek Anbore Ann	stek
hotek	SELV	hotek Anbote An	O'SER-
by. Potek	- between current-carrying parts of different polarity	: 500V	Pek
Anbotel	- between current-carrying parts and mounting surface	500V	Anbor
iek Aup	- between current-carrying parts and metal parts of the luminaire	500V	P Ant
Aupotek Po	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	Anbotek Anbotek Anb	nbotek N
Yupo,	- Insulation bushings as described in Section 5	Aupo, tek upotek	Anb N
Anbox	Other than SELV	otek Anbourek	1200to
Sk Vupe	- between live parts of different polarity	hotek Anbour An botel	$N_{p,n}$
potek A	- between live parts and mounting surface	Anbotek Anbote Att	otek N
vupotek	- between live parts and metal parts	Anbotek Anbote An	hotel N
Anbotek	- between live parts of different polarity through action of a switch	k Anbotek Anbotek	Anbo N ^k
Anbo	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	potek Anbotek Anbotek	Anbr
O. N.	- Insulation bushings as described in Section 5	Aupore Man Motek Aupo	N
.14 (10.3)	Touch current or protective conductor current (mA).:	Whotek Whotek W	potek N

3.15 (13) RESISTANCE TO HEAT, FIRE AND TRACKING		Vun.	
3.15 (13.2.1)	Ball-pressure test	See Test Table 3.15 (13.2.1)	P
3.15 (13.3.1)	Needle-flame test (10 s)	See Test Table 3.15 (13.3.1)	N Amb





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upo. Fek	IEC 60598-2-3		
Clause	Requirement - Test	Result - Remark	Verdict
Anboro	And Andores And Jek aborek	Anbo k Lotek	nbotes
3.15 (13.3.2)	Glow-wire test (650°C)	See Test Table 3.15 (13.3.2)	An Botek
3.15 (13.4) *	Proof tracking test (IEC 60112)	: See Test Table 3.15 (13.4)	Nabote



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Poz	Anbotek Anbotek	IEC 60598-2-3	Aupose Kur apolek	Anborek Anbu
Clause	Requirement - Test	k wotek Anbotek	Result - Remark	Verdict

3.7 (11.2)	TABLES: Creepage di	stances and	d clearan	ces Mibos	rok by	botek	Anbote	P
Table 11.1	Minimum distances (r	nm) for a.c.	(50/60 Hz	z) sinuso	idal volta	ges	Anbor	Pynb
RMS workin	g voltage (V) not exceed	ing	50	150	250	500	750	1000
Creepage distances		ek k	obotek	Anbore	K BULL	work!	Anborek	
Required ba	asic insulation, $PTI \ge 600$		0,6	0,8	1,5	3	4	5,5
Measured	And nick and	otek Ar	100°	abote!	K Arit) Osco.	Yun	Anbotek
Required ba	asic insulation, PTI < 600		1,2	1,6	2,5	5	8	10
Between cu surface	rrent-carrying parts and	mounting	>1.2	Lejk V	urbotek-	Antohen	ing se	otek An
Required su	pplementary insulation P	TI ≥ 600	-	0,8	1,5	3	4	5,5
Measured	An-	r Anbo	rek	abotek	hupole.	- bu	motel4	Anbotek
Required su	pplementary insulation P	TI < 600	-	1,6	2,5	5	8	10
Measured	Anti	nbotek	bupo,	by.	Note P	"lipoje"	VUP.	k Npot
Required re	inforced insulation		-	3,2	5	6	8	11
Measured	Anbotek Anbo	nbotek	Perpo,	b,	Poleje	Anbore	Aut	_eek
Clearances	Anbotek Anbo	L abote	JK An	pore	Ann	ant	lotek b	'upo
Required ba	sic insulation		0,2	0,8	1,5	3	4	5,5
Between cu surface	rrent-carrying parts and	mounting	>0.2	Anboten bo	Fun.	nbotek-	Aup-tek	Aupore
Required su	pplementary insulation		-	0,8	1,5	3	4	5,5
Measured	Anbotek Anbo	abotek	(Zeport	P.	woley.	Anbore	Anb	ek
Required re	inforced insulation		-	1,6	3	6	8	11
Measured	anbotek Anbo	ek b	Yor	Allbore	An-	10/4 D	aborek-	Aupo
Table 11.2	Minimum distances	(mm) for no	n-sinuso	idal pulse	e voltages	ntel.	anbotek	Anbo.
Rated pulse	voltage (peak kV)	2,0	2,5	3,0	4,0	5,0	6,0	8,0
Required cle	earances	1,0	1,5	2	3	4	5,5	8
Measured	inbo kek abotek	Anhore.	Ann	otek	npotek	Pupo.	ok	botek P
Rated pulse	voltage (peak kV)	10	12	15	20	25	30	40
Required cle	earances	11	14	18	25	33	40	60
Measured	Anbors An	0'ek A'	poter	Anbo	K	otek_	Aupore -K	Pur Potek
Rated pulse	voltage (peak kV)	50	60	80	100	-	-	-
Required cle	earances	75	90	130	170	-	-	-
Measured	otek anboren	Ano Pak	~60	Vek	rupo,	by.	8K NO	ooter As





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Po.	Anborek Anbores	IEC 60598-2-3	Anbotek Anbotek	Anbores Anb
Clause	Requirement - Test	k hotek Anbotek	Result - Remark	Verdict

3.15 (13.2.1) TABLE: Ball Pi	ressure Test of Thermo	oplastics	otek Anbor Anbor
Allowed impression diame	ter (mm):	stek anbotek A	nbote Amb
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Plastic of box	Angore Ans	125	1.05
PCB	Arbores And	125	0.67
Supplementary information:	Anbotes Anbo	otek Anbotek Anbo	ak abotek Anbote

3.15 (13.3.1)	TABL	E: Needle-flame test (I	EC 60695-11-5)	Anboten And	ibotek Anbo	ek N A
Object/ Pa Material	rt No./	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
rek o	botek	Pipole Aug	K -nbotek Anbo	rek abotek	Anbore	- Pur
Suppleme	ntary info	rmation:	otek Anbotek An	otok Anbot	ek Anbore.	Dur.

3.15 (13.3.2)	TABLE:	Glow-wire test (IEC 60695-2-1	1) And botek			hotek
Glow wire	temperatu	re:	650°C	Anbore	Ann	_
Object/ Par Material	t No./	Manufacturer/ trademark		Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Plastic of b	ox	And Anbotek	Aupo	NO	0	pass
Diffuser	Aupose	- Ann wotek Anbotek	Vupo.	NO	upore 0 Au	pass
LED PCB	Anbo	And otek anbotek	Aupor	NO	Anbore 0	pass
		of the sample extinguished withi drop did not ignite the underlyir				Anbor
Supplemen	tary inform	ation:	ou sek	ipotek Aupon	-k Pur	an'

3.15 (13.4)* TABLE: Proof tr	acking test (IEC 6011	2)	k Anbor	e. And	4eV	abot N
Test voltage PTI	:	175 V	otek An	poter P	upo tek	_
Object/ Part No./ Material	Manufacturer/ trademark		d 50 drops wi on three spe		on three	Verdict
Supplementary information:	Aupo. K.	hotek	Anbore	Aur	nbotek	Aup





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tek.	abotek Anbote	IEC 60598-2-3	Anbo tek nbotek	Aupoles Aug
Clause	Requirement - Test	k notek anbotek	Result - Remark	Verdict

ANNEX 1 TAE	BLE: Critical component	ts information	k anbotek Anb	0, b.	otek P Anboth
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	standard	Mark(s) of conformity ¹⁾
LED PCB	ZXY	Various	2.0mm	UL 796	UL botek
Battery	Various	SUN32650	3.2V, 40AH	IEC62133	CE Anborek
LED Anborr	Various	Various	Vf:2.8-3.6V If:120mA MAX CCT:2800-6500K	IEC 62031	Test with appliance
LED solar controller	Various	Various	30A Max.	Anbotek	CE Anbotek
Solar panel	Various	Various	VF:4.0V P:120W	IEC 61730	CE Anbotak
Internal wire	Various	Various	14AWG, 105°C	UL 796	UL Jubotek
Diffuser	Various	Various	V-1, 100°C	UL 94	UL nbotek



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Pore	Anborek Anborek	IEC 60598-2-3	Anbores And	Aupology Aupo
Clause	Requirement - Test	k hotek Anbotek	Result - Remark	Verdict

ANNEX 2	TABLE: Temperature measurements, thermal test	s of Section 12	Pohor
potek A	Type reference:	TR01-C	_
hotek	Lamp used:	LED otek Anbotek Anbo	_
Vu., Potek	Lamp control gear used:	DC equipment	
Vin, Polsk	Mounting position of luminaire:	As in normal use	_
K Mun	Supply wattage (W):	96.8	_
N. Bus	Supply current (A):	30.25	
ole, bu	Calculated power factor:	Anbores Anbore	
Aupole	Table: measured temperatures corrected for ta = 25°	C:hnbotes Amb	P I
Anboro	- abnormal operating mode:	Anboren Am.	_
Anbore	- test 1: rated voltage:	3.2V	
k Aupol	- test 2: 1,06 times rated voltage or 1,05 times rated wattage:	tek Anbotek Anbotek	_
upotek bis	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	Anbotek Anbotek Anbote	_
Anbotek	- test 4: 1,1 times rated voltage or 1,05 times rated wattage:	Anbotek Anbotek An	_
Anbor	Through wiring or looping-in wiring loaded by a current of A during the test:	ek Anbotek Anbotek	_

Temperature measurements, (°C)

Dort	Clause 12.4 – normal				Clause 12.5 – abnormal	
Part	test 1	test 2	test 3	limit	test 4	limit
Input wire to LED PCB	46.7	anborek	Aup.	90	ek Aupore	K Pur
LED PCB	68.4	rek - anborel	-Aupore	130	ootek - Anboti	And
Terminal	32.8	stek - snb	Jek bupe	Ref.	botek - Ant	Pup.
Battery surface	49.7	Jon sek	potek A	Ref.	holek.	Anborer - Anb
Diffuser	47.3	Aupo.	nbotek	100	Pur Polek	Anboten A
Metal enclosure	40.2	Anbo.	abotek	Ref.	K Wotek	Anbotek
Mounting surface	29.6	Vupo.	notek	90	Ann	k notek

Supplementary information:



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Poz	Anbotek Anbotek	IEC 60598-2-3	Aupose Kur apolek	Anborek Anbu
Clause	Requirement - Test	k wotek Anbotek	Result - Remark	Verdict

ANNEX 3	Screw terminals (part of the luminaire)	N
(14)	SCREW TERMINALS	N
(14.2)	Type of terminal:	—
And.	Rated current (A):	
(14.3.2.1)	One or more conductors	Pupo, N
(14.3.2.2)	Special preparation	An N
(14.3.2.3)	Terminal size	Nipos
potek Ar	Cross-sectional area (mm²):	a)
(14.3.3)	Conductor space (mm):	over N
(14.4)	Mechanical tests	word N
(14.4.1)	Minimum distance	Nek
(14.4.2)	Cannot slip out	Ame N ore
(14.4.3)	Special preparation	N
(14.4.4)	Nominal diameter of thread (metric ISO thread):	Naup
Tupote.	External wiring	ores N b
Anbore	No soft metal	ubote N
(14.4.5)	Corrosion	Vulp Nek
(14.4.6)	Nominal diameter of thread (mm):	Note
riek ant	Torque (Nm):	N
(14.4.7)	Between metal surfaces	N
up	Lug terminal	N
Anbo.	Mantle terminal	N N
Aupo,	Pull test; pull (N)	AnboN
(14.4.8)	Without undue damage	Noter



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upoter.	Anborek Anborek	IEC 60598-2-3	Anborek Anborek	Anborek Anbo
Clause	Requirement - Test	k hotek Anbotek	Result - Remark	Verdict

ANNEX 4	Screwless terminals (part of the luminaire)		N
(15)	SCREWLESS TERMINALS	otek Anbotek Anbo	N
(15.2)	Type of terminal:	antek anbotek Anbor	_
Augo	Rated current (A):	And tek anbotek Ant	_
(15.3.1)	Material	Anbo. Mek abotek	N N
(15.3.2)	Clamping	Anbor Ar abotek	PLU N
Yupo,	ok hotek Anbore Ann	otek Aupon by Botek	Pupor
(15.3.3)	Stop	botek Anbote And	K N
(15.3.4)	Unprepared conductors	anbotek Anbotek Anbo	N N
(15.3.5)	Pressure on insulating material	And otek anbotek Anb	N
(15.3.6)	Clear connection method	Anbo tek anbotek	N N
(15.3.7)	Clamping independently	Anbo sek abotek	Art N
(15.3.8)	Fixed in position	rek Anbo. A. botek	Noore
(15.3.10)	Conductor size	botek Anbott At hotel	N _A no
obotek	Type of conductor	aborek Anbore Ans	Kelt N
(15.5)	Terminals and connections for internal wiring	hotek Anbote And	N
(15.5.1)	Mechanical tests	hotek Anboten A	N
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	k notek Anboten	And N rel
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	And otek Anbotek	PN
YUP.	Insertion force not exceeding 50 N	bote And otek Anbotek	Nanbi
(15.5.1.2)	Permanent connections: pull-off test (20 N)	Anbotek Anbo. tek nobo	ek N P
(15.5.2)	Electrical tests	Anborek Anbo sek	ote ^k N
anbotek	Voltage drop (mV) after 1 h (4 samples):	rupojek Vupo. V	[™] N _M
abotek	Voltage drop of two inseparable joints	ek nbotek Anbot	Notek
ek 400	Number of cycles:	tek abotek Anbore	_
potek Ar	Voltage drop (mV) after 10th alt. 25th cycle (4 samples):	anbotek Anbotek Anbotek	N A
Anbotek	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	Anbotek Anbotek An	ote ^k N
Anbotek	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	k Anbotek Anbotek	Anborek
sk Aupo	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	otek Anbotek Anbotek	Nabot
(15.6)	Terminals and connections for external wiring	upora Am	N An



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lo-					IEC 60	598-2-3					
Clause	Rec	quirement	- Test	Vien	otek	anbotek	Re	esult - Re	emark	ak Au	Verdic
Anboro	Pris.	work!	Anbores	PUL	LeV-	aboli	3K	Aupon	bo.	otek	Anbore
(15.6.1)	Cond	luctors	Anbote	Jr.	Aupo.	by.	orek	Anbore.	An'	note ^k	Notek
ek Anb	Term	inal size a	nd rating	otek	Anbore	Vr.	Hotek	Anbo	ler.	Anos	Nabo
15.6.2	Mech	echanical tests						N			
(15.6.2.1)		Pull test spring-type terminals or welded connections (4 samples); pull (N)							otek N		
(15.6.2.2)		Pull test pin or tab terminals (4 samples); pull (N):						otek	unbo'N tek		
(15.6.3)	Elect	rical tests	Vupo,	-al-	tootek	Anb	010	Die.	e/r	nbotek	Nul
bug.	Tests	according	g 15.6.3.1 ₊	- 15.6.3	.2 in IEC	60598-1	Inposer	VILLE	arek.	upotek	Nypos
(15.6.3.2)	TABI	LE: Conta	ct resistar	ce test	Por	otek	Anbore	PU	pelk.	abote	N An
anbotek	Volta	ge drop (m	nV) after 1	h Anbore	bra,	-ntel ^k	anbo	stek.	VUPO,	6 00	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop (mV)		mbe ak	otel	N	0010	Vien.	ek	onbotek	Anb	- 2/0	Potek
y Vo		Voltage d	rop of two	insepara	able joints	S PILIP	,ek	, above	b.	upote	Pur
Volta		Voltage d	rop after 10	Oth alt. 2	25th cycle	P.	upo,		otek	Aupore	bree
or Au	Max. allowed voltage drop (mV)						Anbotes	_			
terminal	V.()	1	2	3	4	5	6	7	8	9	10
voltage dro	o (mV)	×stor	Inbole	Pur	*8 /	- dotek	p.º	100	h	ek a	ipole
Aupoten	n by	Voltage d	rop after 50	Oth alt. 1	00th cyc	le 200	rek	Auporen	Pur	wotek.	Anborek
Anbox		Max. allo	wed voltage	e drop (ı	mV)		botek	Anbore	b)	nte ^K	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	o (mV)	Vilia	.e/	nbotek	<u>A</u> nb		h 04	ek p	hole	Vu.	ek
no-	Vupo,	Continue	d ageing: v	oltage d	rop after	10th alt.	25th cyc	cle	anbotek	Aupo	- o/k
Anbo	20	Max. allo	wed voltage	e drop (ı	mV)	Aupotek	bu.	o tek	Vupo	ek ar	_
terminal	10,	1	2	3	4	5	6	7	8	9	10
voltage drop (mV)		obotek	-Anbo	_V-	otek	an'	0010	Pirice	ek	nbotek	PUPP.
kek Anto	Yo.	Continue	d ageing: v	oltage d	rop after	50th alt.	100th cy	ycle	Nos	abotek	Anbe
lpotek l	Upolo	P11.	wed voltage	1010	1000		anbote	P.	Upor - ok	Pri.	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage dro	o (mV)	,			010	bu	y	boten	Vupo	V	r-ofo/r
D/1 -		ormation:	PUDO	Ac.	- Fel	1,000 AU	1	76		10101	POD.



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- Anboro	Attachment 1: Test report of EN 62031:20	VII0.	nbotek .		
Clause	Requirement - Test	Result - Remark	Verdict		
4	GENERAL REQUIREMENTS	rek "po,	po _{ft}		
4.4	Integral modules tested assembled in the luminaire	Anbotek Anbot Anbote	K P Anh		
4.5	Independent modules complies with requirements in IEC 60598-1	Anbotek Anbotek Ant	N		
-poter	Anton Mek Antone Ann	tok boten Anbo	Aporek		
5	GENERAL TEST REQUIREMENTS		b//		
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	N ²		
botek	General conditions for tests in Annex A	(see Annex A)	Helk P		
n.	abores And Lantek Anton	An abote And	104		
6	CLASSIFICATION		Upo,		
	Built-in module	. Yes □ No ⊠	—		
Aupor	Independent module	. Yes □ No ⊠	_		
stek Anb	Integral module	Yes No 🗌	_		
upotek b	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.	Aupotek Aupotek Villan			
7	MARKING	Aupo rek	N		
. abotek	Requirements not applicable to the evaluated produ	uct. abolek Anbo	Pur -otek		
h	itek anboten Arbo sak abotek Anir	Son Mr. Week Pupoley	PU.D.		
8	TERMINALS		-+ upo		
boten A	Screw terminals according section 14 of IEC 60598	3-1:nbotek Anbo	ek N Ar		
Anboyek	Separately approved; component list	Anbotel Anbe	oote ^k N		
abotek	Part of the luminaire	Anborek Anbounk	"N		
,botek	Screwless terminals according section 15 of IEC 60	0598-1:	Nyek		
~ NO.	Separately approved; component list	ok hotek Anboren	N		
hun.	Part of the luminaire	bote, And Autorek Anborek	N		
poter pro	Connectors according IEC 60838-2-2:	Aupores Aupor	N An		
Aupolok	Separately approved; component list	Anbotek Anbu hotek An	o ^{tek} N		
9 (9)	PROVISION FOR PROTECTIVE EARTHING	k Anbore Air	Anbotek Nek		
- (0)	Requirements not applicable to the evaluated product.				
	Treduitements not applicable to the evaluated proof	abotek Anbote Alter	Anbott		
Dr.	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS				
10 (10)	PROTECTION AGAINST ACCIDENTAL CONTAC	T WITH LIVE PARTS	K N AND		



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	Attachment 1: Test report of EN 62031:20	008+A1:2013+A2:2015				
Clause	Requirement - Test	Result - Remark	Verdic			
Dur	k abotek Anbo k atek Anbo	Plus Plus	Aupo			
11 (11)	MOISTURE RESISTANCE AND INSULATION					
otek Ant	After storage 48 h at 91-95% relative humidity and resistance with d.c. 500 V (M Ω):	20-30 °C measuring of insulation	rek P A			
in otek	For basic insulation $\geq 2 \text{ M}\Omega$	Ant otek Anbotek Ant	Ν			
Aup	For double or reinforced insulation $\geq 4 \text{ M}\Omega$	More than $100M\Omega$	^{rupo} , b			
Anbotel Anbotel	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	ootek Anbotek Anbotek	An'N Anbo			
12 (12)	ELECTRIC STRENGTH	Vipo, by Mr Pose	Hek			
Anbotek	Immediately after clause 11 electric strength test for 1 min	Anbotek Anbotek An	nbotelP			
Anbo	Basic insulation for SELV, test voltage 500 V	500V	Aup B			
Anbo.	Working voltage ≤ 50 V, test voltage 500 V	otek Anbo. A. botek	Nook			
lek bupo	Working voltage > 50 V ≤ 1000 V, test voltage (V):	anborek Anbor ak borel	N _M			
botek A	Basic insulation, 2U + 1000 V	anbotek Anbott An	Kelk N			
abotek	Supplementary insulation, 2U + 1000 V	abotek Anbore Am	N/otow			
-botek	Double or reinforced insulation, 4U + 2000 V	k botek Anbote A	N			
A. hotek	No flashover or breakdown	ok botek Anbotes	And P			
ek Anbo	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	nbotek Anbotek Anbotek	PN Ant			
2000 11	stek anborem Anbe sk moteh	Anbore Anbo	lon.			
13 (14)	FAULT CONDITIONS	.V. 660 181	potek			
· (14)	When operated under fault conditions the controlge	ear: Anbores And	N°			
Anbotek	- does not emit flames or molten material	tek Anbotek Anbo	N			
k anbot	- does not produce flammable gases	notek Anbotek Anbo	N			
otek An	- protection against accidental contact not impaired	Aupotek Vupotek Vupor	N			
inbotek notek	Thermally protected controlgear does not exceed the marked temperature value	Anbotek Anbotek An	ootek N			
Anbotek Anbotek	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	ek Anbotek Anbotek	Anborel Anborel			
(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)	Anbotek Anbotek Anbotek Anbote	orek N			

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

Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com





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Clause	Requirement - Test	Result - Remark	Verdict
Vupo,	k hotek Anbote Anb	Diek Wipo, W. Potek	Aupare
otek Anbore	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	Anbotek Anbotek Anbotek	k N _{Po}
- (14.2)	Short-circuit or interruption of semiconductor devices	Anbotes Ambotek Ant	otek N
(14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	ek Anbotek Anbotek	Anbotek
- (14.4)	Short-circuit across electrolytic capacitors	botek Anbore And	No
(14.5)	After the tests has been carried out on three sample	es: Anbores Anbores	- N
notek A	The insulation resistance \geq 1 M Ω	Anbotek Anbotek Anb	w N
hotek	No flammable gases	wotek Anboten Ant	N
Aug	No accessible parts have become live	k kotek Anbotek	N
Anbotek	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	otek Anbotek Anbotek	Anbon Anbon
- (14.6)	Relevant fault condition tests with high-power supply	anbotek Anbotek Anbotel	N _{Arri}
13.2	Overpower condition	Anbors An Morek Anb	Р
Anbore	Module withstands overpower condition >15 min.	Aupores Aug Potek	ibotel [®] P
Anbore, hotek	Module with automatic protective device or power limiter, test performed 15 min. at limit.	Anborek Anborek	Anbe N
rk ho	No fire, smoke or flammable gas is produced	obek Anbotek	P
potek An	Molten material does not ignite tissue paper, spread below the module	anbotek Anbotek Anbotek	e _k b _{ut}
15	CONSTRUCTION	wek whose Am	porok
Anbo.	Wood, cotton, silk, paper and similar fibrous material not used as insulation	tek Anbotek Anbotek	Amborek aborel
16 (16)	CREEPAGE DISTANCES AND CLEARANCES	w whole Wupo.	- tup
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	Anbotek Anbotek Anbot	e ^k N p
mo otek	Insulating lining of metallic enclosures	And work Anborek An	N
Anbotek	Basic insulation on printed boards tested according to clause 14	ek Anbotek Anbotek	Anborol Anborol
stek Anbore	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16	potek Anbotek Anbotek	N
nbotek	Creepage distances not less than minimum clearance	Aupotek Aupoten Aup	otek N



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LIGHTOR	The state of the s	8+A1:2013+A2:2015	Moto.
Clause	Requirement - Test	Result - Remark	Verdic
16 (-)	Conductive accessible parts in compliance with	otek anbotek Anbo	Nipo
tek anb	applicable parts of IEC 60598-1		A. Darie
/v /v	niek Anbor Ant Lek Abores I	Aupor Aupor	br ₂
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CO	NNECTIONS	oter
Anborek	Screws, current-carrying parts and connections in co (clause numbers between parentheses refer to IEC 6		Р
18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING	Ar. John	Aug-Pot
	Ball-pressure test:	ick hore Alli	Piller
- (18.1)	100	nbote Ansote	- N
- (18.3)	Glow-wire test (650°C)	Pupote, Mun	N N
- (18.4)	Needle-flame test (10 s)	Anboten Anb	noteN
- (18.5)	Proof tracking test	Anbotek Anbo	Nek
19 (19)*	RESISTANCE TO CORROSION	-Nor-	- COSOS
lek Mupo	- test according 4.18.1 of IEC 60598-1	hotek Anbore And	N
otek nr	- adequate varnish on the outer surface	ntek Anbotek Anbo	N N
40V	potek, Vupous Will Otek Vupous	Anbo Lek Spokel Anbo	
20*	INFORMATION FOR LUMINAIRE DESIGN		ipore N
	Information in Annex D (informative)		
Ya.	No. W. Aller	ok hote	—
nhoisk 04*	Anbore Anbore	ek nipolok Arbone	Ambote
- P	HEAT MANAGEMENT	ek nobolek Arbone	Pupote Burpote
- P	General	ek upotek Vipotek Vipote	
21.1	General Exchangeability is safeguarded by cap or base	ek Anborek Anborek Anbore	N
21* 21.1 21.2	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste	ek Anbotek Anb	N N
21.1	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if	ek nobotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
21.1	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste	Anbotek	N N
21.2	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if	Anbotek	N N
21.2	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if necessary	Anbotek	N N
21.2	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if necessary PHOTOBIOLOGICAL SAFETY	Anbotek	N N N
21.1 21.2 22* 22.1	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if necessary PHOTOBIOLOGICAL SAFETY UV radiation	Anbotek Anbote	N Footer N Anto N Anto N Anto N Anto N Anto N
21.1 21.2 22* 22.1	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if necessary PHOTOBIOLOGICAL SAFETY UV radiation Luminous radiation not exceed 2mW/klm	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N N N N N N N N N N N N N N N N N N
21.1	General Exchangeability is safeguarded by cap or base Heat-conducting foil and paste Heat-conducting foil delivered with the module if necessary PHOTOBIOLOGICAL SAFETY UV radiation Luminous radiation not exceed 2mW/klm Blue light hazard	Anbotek	N N N N N N N N N N N N N N N N N N N



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Attachment 1: Test report of EN 62031:2008+A1:2013+A2:2015						
Clause	Requirement - Test	Result - Remark	Verdict			
Vura	k abatek Anba k kotek Anba	Are stek photek	Vupo,			
A	ANNEX A - TESTS		Acpost			
otek Ant	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable	Anbotek Anbotek Anbote	K N Ant			
'Upo'	atek anbores And sek spotek	Andon Andrek and	o'e'			
	ANNEX 1 - SELV-operated LED modules		abotek			
abotek	SELV-operated LED modules in compliance with A	nnex I of IEC 61347-2-13	Nek			



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Attachment 2: Photo documentation





Shenzhen Anbotek Compliance Laboratory Limited

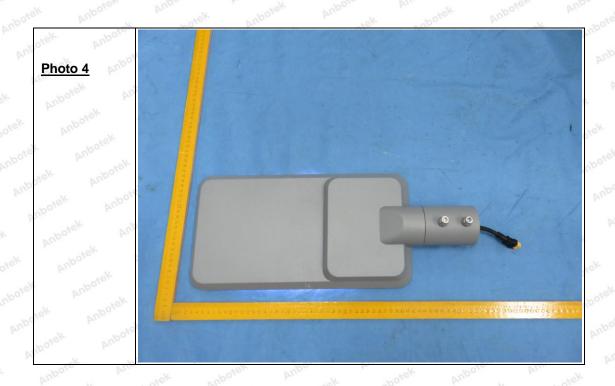
Hotline 400-003-0500 www.anbotek.com



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Attachment 2: Photo documentation









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Attachment 2: Photo documentation





-END REPORT-

