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Test Report

Foshan kaicheng lightling Co., Ltd. Client Name

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

52800, China

Product Name Solar Flood light

Jul. 02, 2020 Date

Shenzhen Anbotek Compliance Laboratory Limited

Compliance Laboratory

Anbotek



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TEST REPORT

IEC 60598-2-5

Part 2: Particular requirements: Section Five – Floodlights

Report

Report reference No.: 18240IC00001902

Compiled by...... Owen Luo
Approved by Jeff Zhu

Date of issue Jul. 02, 2020

Contents.....: 41 pages report

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 60598-2-5:2015 used in conjunction with

IEC 60598-1:2014+A1:2017

Test item Description

Product name Solar Flood light

Trademark: N.A.

Manufacturer : Same as applicant
Address : Same as applicant
Factory : Same as applicant
Address : Same as applicant
Same as applicant

Model and/or type reference: TK02-A, TK02-B, TK02-C, TK02-D, TK02-E

Rating(s) Solar panel: 3.2V; Battery: 3.2V; 200W



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Test item particulars

Classification of installation anduse Terminal

Protection class : Class III

Degree of protection : IP65

Test case verdicts

Testing

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.

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 60598-2-5:2015
- 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.

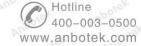
List of Attachments

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

Attachment 2: European differences according to EN 60598-2-5:2015

Attachment 3: Photo documentation







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Copy of marking plate

Solar Flood light

Model No.: TK02-E

Rating: Solar panel: 3.2V; Battery: 3.2V; 200W



C€ _{IP65}



Manufacturer: Foshan kaicheng lightling Co., Ltd. Address: No. 16 Xingyexi Road, Shishan, Nanhai District, Foshan 52800, China

Made in china

Location: Sticking on the enclosure.

Remark: height of WEEE symbol at least 7mm; height of other symbols at least 5mm, height of letters and numbers at least 2mm.

Rating labels for other models are same except the model name and rating.

General product information

All models have the similar appearance, but different dimension, power.

Unless otherwise specified, models TK02-E was selected as representative models to perform all tests.



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Olborer	IEC 60598-2-5	Dask Daward	ogiek
Clause	Requirement + Test	Result - Remark	Verdict
5.4 (0+2)	CLASSIFICATION OF LUMINAIRES	ak obotek Anbotek	Pupp.
5.4 (0.1)	Information for luminaire design considered:	Yes ⊠ No □ Lamp standard:	_
5.4 (0.3)	More sections applicable:	Yes No Section/s:	_
5.4 (2.2)	Type of protection:	Class III	notP'
5.4 (2.3)	Degree of protection:	IP65	Prek
5.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces	Yes 🛛 No 🗌	_
5.4 (2.5)	Luminaire for normal use:	Yes 🛛 No 🗌	_
obotek	Luminaire for rough service:	Yes □ No ⊠	_
abotek	Anboth Anbotek Anbotek Anbotek	historiek Anbores Ant	wo tek
5.5 (3)	MARKING	k abotek Anboten	ino otek
5.5 (3.2)	Mandatory markings	ok hotek Anborok	AMP NE
-/- PUD	Position of the marking	c k hotek Anbores	Р
Ples. Mur	Format of symbols/text	Hoote K Anbore	P Ant
5.5 (3.3)	Additional information	Anbore And	orek P
Anbore	Language of instructions	English	nboteP
5.5 (3.3.1)	Combination luminaires	k Anboter Anb	Nek
5.5 (3.3.2)	Nominal frequency in Hz	orek Anborek Anbo	Note
5.5 (3.3.3)	Operating temperature	otek Anbotek Anbo	N
5.5 (3.3.4)	Symbol or warning notice	n otek Anbotek Anbot	N Par
5.5 (3.3.5)	Wiring diagram	Anbo tek nbotek Anbo	N
5.5 (3.3.6)	Special conditions	Anbo ek abotek Ar	pore N
5.5 (3.3.7)	Metal halide lamp luminaire – warning	Aupo, Ar Polek	Anb
5.5 (3.3.8)	Limitation for semi-luminaires	Auport Amborek	Notes
5.5 (3.3.9)	Power factor and supply current	otek Anbore Am	N
5.5 (3.3.10)	Suitability for use indoors	botek Anbotes Anb	N N
5.5 (3.3.11)	Luminaires with remote control	hotek Anbotes Anb	N
5.5 (3.3.12)	Clip-mounted luminaire – warning	Ann Anbotek An	o N
5.5 (3.3.13)	Specifications of protective shields	Ante otek anbotek	PupoN "ak
5.5 (3.3.14)	Symbol for nature of supply	And stek anbotek	PLE BOARD
5.5 (3.3.15)	Rated current of socket outlet	kotek Aupo sek spotek	Nupo
5.5 (3.3.16)	Rough service luminaire	otek aupon bu	N N



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	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And tak abotel Ando k katek	Aupole. Aug	abotek
5.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	Anbote
5.5 (3.3.18)	Non-ordinary luminaires with PVC cable	orek aborek	Nab
5.5 (3.3.19)	Protective conductor current in instruction if applicable	inbotek Anbotek Anbot	W N
5.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	Anbotek Anbotek An	nbotek Knbotek
5.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non-user replaceable light sources	Anbore
Ville	Cautionary symbol	no. Augustek	Pupi
5.5 (3.3.22)	Controllable luminaires, insulation	abores And stek anbore	· N »
5.5 (3.4)	Test with water	Rubbed lightly for 15 s	otel ^k P
Aupotek	Test with hexane	For a further 15 s	A Produc
nbotek	Legible after test	Anbotek Anbote	Prek
nbote	Label attached	ek abotek Anbote	P
5.5 (-)	Additional necessary marking	tek abotek Anbote	P
- ok	Operation position	loon by Protek Vupose	. P
100, I	Weight and dimensions	Anbore Anb	Р
Anboie	Maximum protected area	Aupola K Motek D	nboteh P
Anbores	Range of mounting heights	Aupotes Aug	anbNek
Anbote	Suitability for indoor use	ek anbores Anb	Nool

5.6 (4)	CONSTRUCTION	ok -
5.6 (4.2)	Components replaceable without difficulty	N
5.6 (4.3)	Wireways smooth and free from sharp edges	100° P
5.6 (4.4)	Lampholders	N dna
5.6 (4.4.1)	Integral lampholder	Notes
5.6 (4.4.2)	Wiring connection	Nanbot
5.6 (4.4.3)	Lampholder for end-to-end mounting	ek N an
5.6 (4.4.4)	Positioning	NewN
by Potek	- pressure test (N)	_
Anbotek	After test the lampholder comply with relevant standard sheets and show no damage	Anbotek Anbotek
ok Anbo	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	N _{Anbote}



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loo sek	Anborek Anbore.	P11.	IEC 60598-2-5	Anba, tek mbot	ek Aupon	-K bi
Clause	Requirement + Test	P.U.P.	niek anbotek	Result - Remark	ootek Ank	Verdict

	- bending test (Nm):		_
otek An	After test the lampholder have not moved from its position and show no permanent deformation	anbotek.	N up
5.6 (4.4.5)	Peak pulse voltage	Jotes Ann	atek N
5.6 (4.4.6)	Centre contact	Anbotek An	N
5.6 (4.4.7)	Parts in rough service luminaires resistant to tracking	anbotek	Anbo N .ak
5.6 (4.4.8)	Lamp connectors	anbotek	Nova
5.6 (4.4.9)	Caps and bases correctly used	k sporek	Nupo
5.6 (4.4.10)	Light source for lampholder or connection according IEC 60061 not connected another way	otek Anbote	K N An
5.6 (4.5)	Starter holders	nbotek Ant	N
AUDO	Starter holder in luminaires other than class II	abotek	'upo, N
Anbo	Starter holder class II construction	abotek	Anth
5.6 (4.6)	Terminal blocks	, botek	Noose
otek Anbi	Tails And	er hotel	N por
abotek p	Unsecured blocks	No. Vin	rek N
5.6 (4.7)	Terminals and supply connections	upore Ann	P
5.6 (4.7.1)	Contact to metal parts	Anboies P	Nek
5.6 (4.7.2)	Test 8 mm live conductor	Anbotek	And P
h bus	Test 8 mm earth conductor	anborek	N
5.6 (4.7.3)	Terminals for supply conductors	rek Ambotek	PAnb
5.6 (4.7.3.1)	Welded connections:	rek abo	GK N b
anbotek	- stranded or solid conductor	190 FEK	botelN
Motek	- spot welding	Anbo. A	N.Y
nborek	- welding between wires	Aupor	Notel
ek woo	- Type Z attachment	Aupore. K	N
N. Pro	- mechanical test according to 15.8.2	ek Anbore	N
por bu	- electrical test according to 15.9	otek Anbo	N N
Aupola	- heat test according to 15.9.2.3 and 15.9.2.4	Lotek Ar	poter N
5.6 (4.7.4)	Terminals other than supply connection	And	anbo'Ph
5.6 (4.7.5)	Heat-resistant wiring/sleeves	Ano	Notek
5.6 (4.7.6)	Multi-pole plug	Anbo	N
otek nat	- test at 30 N	Aupore	N
5.6 (4.8)	Switches:	Jotek Anbo.	, N



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	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdict
Anbo	adoptives rating ambor Amores	Anbo sek	Puppore
Aupo.	- adequate rating	k vupo, by upolek	Note
k Pupo,	- adequate fixing	stek hupor bush	N
otek hu	- polarized supply	upotek Aupote Au	V
E C (4 O)	- compliance with IEC 61058-1 for electronic switches	abotek Anbote Ann	N N
5.6 (4.9)	Insulating lining and sleeves	An Anhoren An	N
5.6 (4.9.1)	Retainment Math and of fining	Ant Motel Anbotell	N _o qui
5 0 (4 0 0) 0 ¹⁰	Method of fixing:	And otek antotek	_
5.6 (4.9.2)	Insulated linings and sleeves	ofer Anbu tek sobotek	N
	Resistant to a temperature > 20 °C to the wire temperature or	abotek Anbor Anbor	N P
upote	a) & c) Insulation resistance and electric strength	Anbore Ant	oten N
Anbore	b) Ageing test. Temperature (°C)	Anbore And otek	N ^{toda}
5.6 (4.10)	Double or reinforced insulation	Anbotel Anbo	Piek
5.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	lek Anbotek Anbat	N _{po}
lek Yup,	Safe installation fixed luminaires	bosek Aribo Ar abote	N N
loolek b	Capacitors and switches	anborek Anbor Ali	orek N
Anbotek	Interference suppression capacitors according to IEC 60384-14	Anbotek Anbotek	nboteN
5.6 (4.10.2)	Assembly gaps:	Anbo tek anbotek	Anbore
Anbo	- not coincidental	lek Antoo ek abotek	N
Sk. Vupo	- no straight access with test probe	potek Ankon An hotel	Nan
5.6 (4.10.3)	Retainment of insulation:	abotek Anbote Ant	re ^N N
abotek	- fixed	abotek Anbuter Anu	ote\N
-hotek	- unable to be replaced; luminaire inoperative	hotek Anbotek A	N
Pur Potek	- sleeves retained in position	k hotek Anbotek	N .e
PUD.	- lining in lampholder	And otek onbotek	N
5.6 (4.11)	Electrical connections and current-carrying parts	botek Anbotek	Pani
5.6 (4.11.1)	Contact pressure	Tupotok Vupo. W. Tpo	Р
5.6 (4.11.2)	Screws:	Aupolek Aupo, W.	bo ^{tek} P
anbotek	- self-tapping screws	anboisk Antore Al	.boP ^N
abotek.	- thread-cutting screws	k abotek Anbote	Note
5.6 (4.11.3)	Screw locking:	Lek shotek Anboten	N
- K	- spring washer	or Anthorek Anborek	N
ote, bu	- rivets	abote Anti	N



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*ek	IEC 60598-2-5	Arek mboter And	V
Clause	Requirement + Test	Result - Remark	Verdict
5.6 (4.11.4)	Material of current-carrying parts	Anbo A. Anborek	P.rel
Plin	V SACK MAN SON	Anbo A A aborek	Arboře P
5.6 (4.11.5)	No contact to wood or mounting surface	stek Aupon All hotek	dra
5.6 (4.11.6)	Electro-mechanical contact systems	abotek Anbote And	N
5.6 (4.12)	Screws and connections (mechanical) and glands	And Andrew Andrew	P F
5.6 (4.12.1)	Screws not made of soft metal	Aur Aupotek Au	P
Anti	Screws of insulating material	Anv and and and arek	^{yupo} N
Anbe	Torque test: torque (Nm); part:	Fixed diffuser: 2.86mm, 0.5Nm	ALIBOTO .
Anbo.	Torque test: torque (Nm); part	otek Anbo. A. abatek	Noo
otek Ant	Torque test: torque (Nm); part	potek Aupore Mr.	_k N
5.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal	apotek Aupote Aur	N N
5.6 (4.12.4)	Locked connections:	All Motek Anboten Ant	N
Vu.	- fixed arms; torque (Nm)	An botek Anbotek	upo N
And	- lampholder; torque (Nm)	And tek abotek	An'N
Anbo	- push-button switches; torque 0,8 Nm	iek Anbo	Noo
5.6 (4.12.5)	Screwed glands; force (Nm):	botek Anbo, ak botel	N N
5.6 (4.13)	Mechanical strength	abotek Anbore An	Nek P
5.6 (4.13.1)	Impact tests:	abotek Anbote And	P
Arrabotek	- fragile parts; energy (Nm):	Lamp cover; 0.35Nm	Pek
Ann	- other parts; energy (Nm):	Metal enclosure; 0.5Nm	Anb P
Ant	1) live parts	Ant otek Anbotek	PP
Sr. Vub.	2) linings	poter And stek anbotek	Nan
potek A	3) protection	Anborek Anbo sek abo	re ^k P
anborek	4) covers	anbotek Anbote Am	note\P
5.6 (4.13.3)	Straight test finger	Thotek Anbore	P.V
5.6 (4.13.4)	Rough service luminaires	ok motek Anboren	N R
V 100	- IP54 or higher	k hotek Anbotek	N
broo.	a) fixed	John Andrek Anborek	Nant
otor M	b) hand-held	Pupoles Viupo	N
Inpolek	c) delivered with a stand	Anbotek Anbo	o ^{tek} N
Anbotek	d) for temporary installations and suitable for mounting on a stand	Anbotek Anbotek	AnboN ^k
5.6 (4.13.6)	Tumbling barrel	k notek Anbotek	N
5.6 (4.14)	Suspensions, fixings and means of adjusting	Poter Muss	P.nb
5.6 (4.14.1)	Mechanical load:	Anbore Anbo Anbor	PP
notek	A) four times the weight	3.59kg*4=14.36	otek P



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IEC 60598-2-5			
Clause	Requirement + Test	Result - Remark	Verdict
Anbo.	B) torque 2,5 Nm	2.5Nm	Pare
Aupo	C) bracket arm; bending moment (Nm)	2.514111	Anbore N
rupo,	D) load track-mounted luminaires	stek hupo, rek upolek	N
notek An	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	inbosek Anbosek Anbos	N
no	Metal rod. diameter (mm)	And work Anbotek An	N
Anbotek	Fixed luminaire or independent control gear without fixing devices	Anbotek Anbotek	N _{anborel}
5.6 (4.14.2)	Load to flexible cables	otek Anborek Anbo	Noto
tek Ant	Mass (kg)	notek Anborek Anbo	- H
hotek	Stress in conductors (N/mm²):	hotek Anbotek Anbo.	N Yes
otek	Mass (kg) of semi-luminaire:	And anbotek Ant	_
Aug	Bending moment (Nm) of semi-luminaire	Anbotek Anbotek	N.A
5.6 (4.14.3)	Adjusting devices:	Anbo tek nbotek	Anbere P
Aupo	- flexing test; number of cycles	150	P _{ipo}
ek Anb	- strands broken:	botek Anto, ek abote	NA
potek p	- electric strength test afterwards	Anbotek Anbors Ali	orek P
5.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	Anbotek Anbotek	nboteŇ
5.6 (4.14.5)	Guide pulleys	Aupo stek upotek	AntoN
5.6 (4.14.6)	Strain on socket-outlets	Sk Yupo, tek upolek	Noo
5.6 (4.15)	Flammable materials:	hotek Anbor Ak botel	PAR
otek A	- glow-wire test 650°C:	See Test Table 5.15 (13.3.2)	rek P
abotek	- spacing ≥30 mm	anbotek Anbots Anb	Note,
abotek	- screen withstanding test of 13.3.1	abotek Anbotes A	N
bořek	- screen dimensions	k abotek Anboten	N
K NO.	- no fiercely burning material	ok hotek Anbores	Р
Pro-	- thermal protection	lose Auguster Auguster	Nami
0 ₁₀ , VI	- electronic circuits exempted	Anbore Ann	N
5.6 (4.15.2)	Luminaires made of thermoplastic material with lamp of	control gear	ookek N
Anborer	a) construction	Anbotes Anti-	NoboN ^k
Anbotek	b) temperature sensing control	Anbotek Anbo	Nove
anbot	c) surface temperature	otek Anbotek Anbotek	N
5.6 (4.16)	Luminaires for mounting on normally flammable surface	es and analysis Ambour	N
alk pri	No lamp control gear:	(compliance with Section 12)	N



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*ek	IEC 60598-2-5	And And And	.V.
Clause	Requirement + Test	Result - Remark	Verdict
5.6 (4.16.1)	Lamp control gear spacing:	Anbotek Anbotek	Nate
v	- spacing 35 mm	K And Lotek Anborek	N N
Pupp	- spacing 10 mm	coter tupo stek vupotek	N
5.6 (4.16.2)	Thermal protection:	Aupotek Aupot	N
Inpolek	- in lamp control gear	Aupotek Aupo	po ^{tel} N
Anborek	- external	Aupotek Aupo, W.	abo'N
anbotek	- fixed position	I Anborek Anbore	Neg
r spore	- temperature marked lamp control gear	rek abotek Antiote	N w
5.6 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N
5.6 (4.17)	Drain holes	Albor ok hotek Anboh	N
Upole	Clearance at least 5 mm	Antote Ant wotek Ant	N
5.6 (4.18)	Resistance to corrosion:	Anborer Anb	inposek
5.6 (4.18.1)	- rust-resistance	Anboren Anbo	nn/N ^{tel}
5.6 (4.18.2)	- season cracking in copper	olek Aupotek Pupo	N/o _o
5.6 (4.18.3)	- corrosion of aluminium	niek Anboiek Anbo.	N
5.6 (4.19)	Igniters compatible with ballast	otek Anbotek Anbot	.a⊬ N
5.6 (4.20)	Rough service vibration	Pupp sek upotek Pup	N
5.6 (4.21)	Protective shield:	Aupo, tek upotek b	N.V.
5.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	anbotek Anbotek	Anbol Anbol
ek anbe	Shield of glass if tungsten halogen lamps	notek Anbotek Anbo	N
5.6 (4.21.2)	Particles from a shattering lamp not impair safety	otek Anbotek Anbore	N
5.6 (4.21.3)	No direct path	Aribo tek anbotek Anbi	N
5.6 (4.21.4)	Impact test on shield	Aupo, wek upotek W	N _v
Aupor	Glow-wire test on lamp compartment	See Test Table 5.15 (13.3.2)	Vuporer
5.6 (4.22)	Attachments to lamps	Anborn Ann hotek	PN
5.6 (4.23)	Semi-luminaires comply Class II	hotek Anbute Anbutek	Nant
5.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Anbotek Anbotek Anbo	N N
5.6 (4.24.2)	Retinal blue light hazard	Anbo ak abotek Ar	N Poster
Aupor	Luminaires with Ethr	Aupon An polek	Pupole N
Anbors	a) Fixed luminaires	ek Anbo. K Anbolek	Mose Note
k Aupor	- distance x m, borderline between RG1 and RG2 :	otek Anboren And	Nab
otek an	- marking and instruction according 3.2.23	botek Anbotet Anbo	N N
Yes	b) Portable and handheld luminaires	Par apoley Pupo	N



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*ek	IEC 60598-2-5	And Andrew And	V
Clause	Requirement + Test	Result - Remark	Verdict
Aupo,	- marking according 3.2.23 if RG1 exceeded at 200	Mupo, W. Wolek	Anbote.
	mm according to IEC/TR 62778	Anbor Atek Anborek	Anbore
otek Anbe	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	botek Anbotek Anbotek	N.o.p
5.6 (4.25)	Mechanical hazard	anborek Ambores Amb	o ^{tek} P
3.0 (1.20)	No sharp point or edges	abotek Antore An	no P
5.6 (4.26)	Short-circuit protection:	ek -potek Aupoter	N. N.
5.6 (4.26.1)	Adequate means of uninsulated accessible SELV	k potek Aupotek	P
3.0 (4.20.1)	parts	botek Anbotek Anbotek	Anb
5.6 (4.26.2)	Short-circuit test with test chain according 4.26.3	Aupor, Wy Protek Wupote	N
nbore	Test chain not melt through	Anbore Ant work Ant	o _{ver} N
Anbore	Test sample not exceed values of Table 12.1 and 12.2	Anbore Anborek	inbot N atek
5.6 (4.27)	Terminal blocks with integrated screwlessearthing co	ntacts	Ambo.
Press	Test according Annex V	Jores And otek Anbotek	N
lek Vup	Pull test of terminal fixing (20 N)	Whotek Anbo tek anbote	N P
ipolek b	After test, resistance < 0,05 Ω	Anbotek Anbo. At Anbo.	N N
Anbotek	Pull test of mechanical connection (50 N)	Aupolek Auco.	,boteN
Anbotek	After test, resistance $< 0.05 \Omega$	k Anbotek Anbot	Nek
anbotel	Voltage drop test, resistance $< 0.05 \Omega$	olek anbolek Anbole	N
5.6 (4.28)	Fixing of thermal sensing control	otek Anbotek Anbot	N
18K	Not plug-in or easily replaceable type	notek nbotek Anbore	N
PO, P	Reliably kept in position	Anto ek abotek Anto	N
Anborek	No adhesive fixing if UV radiations from a lamp can degrade the fixing	Anbotek Anbotek A	bolek hotek
aboiek	Not outside the luminaire enclosure	K nbotek Anbote	N
/r 200	Test of adhesive fixing:	tek abotek Anbotek	N
rak br	Max. temperature on adhesive material (°C):	hor aborek Anboren	N
10,2 Pr	100 cycles between t min and t max	Aupon Wy	N
Anboto	Temperature sensing control still in position	Anbore An hotek Arr	POTON N
5.6 (4.29)	Luminaires with non-replaceable light source	Anbors. And Lotek	AnboN
Anboren	Not possible to replace light source	tek Anboren Anthon	Nove
k Aupor	Live part not accessible after parts have been opened by hand or tools	potek Anborek Anborek	Nant
5.6 (4.30)	Luminaires with non-user replaceable light source	Inpoter Man Apol	P



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Clause	Requirement + Test	Result - Remark	Verdict
Anbo	In the state of th	Aupo, W. Poliek	Anbore
	If protective cover provide protection against electric shock and marked with "caution,"	Anbore All hotek	Anbore
	electric shock risk" symbol:	otek Anbote And wotek	Anb
otek An	Minimum two fixing means	shortek Anboros Ann	N ,
5.6 (4.31)	Insulation between circuits	hotek Anbores Anbo	AN YOU
"otek	Circuits insulated from LV supply fulfil requirements	Anbotek Anbotek An	N
Ann	according 4.31.1 – 4.31.3	And ok botek	Yupo,
	Controllable luminaires requiring same level of insulation for all components, the insulation between control terminals and LV supply fulfil requirements according 4.31.1 – 4.31.3	tek Anbotek Anbotek	Anbr
5.6 (4.31.1)	SELV circuits	thore And hotek Anbot	Р
nto (Citatin)	Used SELV source	Antorio Ant Lotek Ant	P
Aupoten	Voltage ≤ ELV	Anbotek Anti-	unbotek P
Anboten	Insulating of SELV circuits from LV supply	Anboren And	an Wiek
Aupore	Insulating of SELV circuits from other non SELV circuits	lek Anbotek Anbotek	Ripo
is but	Insulating of SELV circuits from FELV	Notek Anbore	N
Dore P	Insulating of SELV circuits from other SELV circuits	Anbore And	N
Anbotek	SELV circuits insulated from accessible parts according Table X.1	Anbotek Anbotek	nbotek
Anbotek	Plugs not able to enter socket-outlets of other voltage systems	ek Anbotek Anbotek	N Anbol
otek Anbe	Socket outlets does not admit plugs of other voltage systems	Sofek Anbotek Anbotel	N _A n
nbořek	Plugs and socket-outlets does not have protective conductor contact	Anbotek Anbotek Anb	N
5.6 (4.31.2)	FELV circuits	aborek Anbore A	N
, botek	Used FELV source	ak abotek Anbote	Pure N
r ro	Voltage ≤ ELV	ak hotek Anboten	N
bu.	Insulating of FELV circuits from LV supply	or Annotek Anbotek	Nami
Potek Vi	FELV circuits insulated from accessible parts according Table X.1	Inbotek Anbotek Anbo	ek N
Anbotek	Plugs not able to enter socket-outlets of other voltage systems	Anbotek Anbotek Ar	NA
k Aupore	Socket outlets does not admit plugs of other voltage systems	Aupore Auporek	My No ye
otek An	Socket-outlets does not have protective conductor contact	obotek Anbotek Anbotek	N _{up}
5.6 (4.31.3)	Other circuits	notek Anbores Anti-	are™ N



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Clause	Requirement + Test	Result - Remark	Verdict
Anbor.	Other circuits insulated from accessible parts	Aupo, W. Violek	Pupoter.
Anbore	according Table X.1	ek Anborek Ali	Anbore
otek Aup	Class II construction with equipotential bonding for prowith live parts:	tection against indirect contacts	N.nb
otek	- conductive parts are connected together	Anbotek Anbotek Anbo	N
up stek	- test according 7.2.3 of above	And otek Anbotek An	N
Anbotek	- conductive part not cause an electric shock in case of an insulation fault	Anbotek Anbotek	Anbo N
L Anbo	- equipotential bonding in master/slave applications	stek Anbotek Anbo	N
Hek Ar	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	Anbotek Anbotek Anbot	N
nboten	- slave luminaire constructed as class I	Anboter, Anb	otell N
5.6 (4.32)	Overvoltage protective devices	Anbotek Anbe	Nioda
Anbotek	Comply with IEC 61643-11	k Anbotek Anbo	Niek
nbot	External to control gear and connected to earth:	lek hopotek Anbou	N
ek n	- only in fixed luminaires	tek abotek Anbota	N
-ok	- only connected to protective earth	Inbo. Anborek Anbore	N P
5.6.1 (-)	At least IPX3 if for outdoor use	Aupo, All Potek Aup	Р
5.6.2 (-)	Lampholder brackets and lamp supports	Anbors An hotek	nboten N
5.6.3 (-)	Adjusting means	Anbore K Ans work	anbNek
5.6.4 (-)	Controlling components	stek Anbore And otek	Noot
5.6.5 (-)	Fixing device	sotek Anboten Anbo	P
-otek	Wind force test	notek Anboten Anbo	P P
5.6.6 (-)	Locking of angular adjustment	Anti-	P
5.6.7 (-)	Vibration resistance	And otek anbotek A	P. P
5.6.8 (-)	Requirement on glass cover if mounting height > 5 m	Anbo sek abotek	Anb P
Anbo	Method of protection:	key upotek	_
Pup.	or Andrew Anbores And otek An	ibotek Anbo. A. abotek	Ant
5.7 (11)	CREEPAGE DISTANCES AND CLEARANCES	Anborek Anbors Ar.	ek —
5.7 (11.2)	Creepage distances and clearances	See Table 5.7 (11.2)	novekP
Anbotek	Impulse withstand category (Normal category II) (Category III Annex U, Table U.1)	Category II Category III	_
Anbo	ok hotek Anboten Anb	ek Anbor Ar. hotek	Anbore
5.8 (7)	PROVISION FOR EARTHING	potek Anbore An hotek	Anb
5.8 (7.2.1 + 7.2.3)	Accessible metal parts	Anbotek Anbotek Anbot	N N
100	Va. 7	1.01°	100



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Clause	Requirement + Test	Result - Remark	Verdic
Anbor	Anbotek Anbotes Anb	otek Anbor stek Anborek	Anboten
Vupo.	Metal parts in contact with supporting surface	hborok Aribo tek anbotek	N
Aupo	Resistance < 0,5 Ω	infores Anbo	IN Up
An An	Self-tapping screws used	Inpotek Anboursek	botelle N
hotek	Thread-forming screws	Anbotes Anbo	anbotek N
Anbotek	Thread-forming screw used in a grove	tek Anbotek Anbo	NootN
Anbotek	Earth makes contact first	otel Anbotek Anbo	N
Anborn	Terminal blocks with integrated screwlessearthing contacts tested according Annex V	Amberek Anborek Anbor	ek N
ren Ani	Built-in control gear	Anboten Anbotek and	oote N p
5.8 (7.2.2 - 7.2.3)	Earth continuity in joints, etc.	Anbotek Anbotek	Ainhotek N
1.8 (7.2.4)	Locking of clamping means	Anti otek Anbotek	kupo, N
Anbo	Compliance with 4.7.3	botes And stek subotek	MIN
ek Anb	Terminal blocks with integrated screwlessearthing contacts tested according Annex V	Anbotek Anbotek Anbote	N
5.8 (7.2.5)	Earth terminal integral part of connector socket	All otek Anbotek Ant	N N
5.8 (7.2.6)	Earth terminal adjacent to mains terminals	And stek anbotek	N
5.8 (7.2.7)	Electrolytic corrosion of the earth terminal	Anbo sek abotek	Pupor N
5.8 (7.2.8)	Material of earth terminal	otek Anbo tek abotek	AntoN
Anbo.	Contact surface bare metal	upo, ek Vupo, ek Pole	Noo
5.8 (7.2.10)	Class II luminaire for looping-in	potek Aupo, ak ap	otek Nar
otek p	Double or reinforced insulation to functional earth	abotek Anbore Ali	N Yayan
5.8 (7.2.11)	Earthing core coloured green-yellow	k botek Anbote A	Nigote
abotek	Length of earth conductor	Anbotek Anboter	AND NA
Ai.	Anbotek Anb	or Ar storek Anboren	VUP.
5.9 (14)	SCREW TERMINALS	inbote An botek Anbotek	Pupo
Vun	Separately approved; component list	: (see Annex 1)	Her Nami
ote, by	Part of the luminaire	: (see Annex 3)	abotek N
upoter.	And Anbotek Anbot Anbotek	Vupotes Yun Totak	Anborek .
.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL C	AU. VIOL	anbotok.
Anbotek	Separately approved; component list	MOTO BOY	N N
	Part of the luminaire	: (see Annex 3)	N

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5.10 (5)

5.10 (5.2)

Р

EXTERNAL AND INTERNAL WIRING

Supply connection and external wiring



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*ek	IEC 60598-2-5	Ariv tek abotek Anbi	V
Clause	Requirement + Test	Result - Remark	Verdict
5.10 (5.2.1)	Means of connection:	Terminal	Pare
k Anbor	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	trotek Anbotek Anbotek	Anbor N Anb
5.10 (5.2.2)	Type of cable	Import Andrew Andrew	Р
inpour of	Nominal cross-sectional area (mm²)	Aupour All	P.
Anbore	Cables equal to IEC 60227 or IEC 60245	IEC 60245	Aupotok
5.10 (5.2.3)	Type of attachment, X, Y or Z	Type Y	An Pore
5.10 (5.2.5)	Type Z not connected to screws	otek Aupoter Aupo	Noto
5.10 (5.2.6)	Cable entries:	botek Anbotek Anbo	P.
hotek	- suitable for introduction	hotek Anborek Anbo	yel√ P
no otek	- adequate degree of protection	hupotek Pupotek Pu	Р
5.10 (5.2.7)	Cable entries through rigid material have rounded edges	Anbotek Anbotek	Ambotek
5.10 (5.2.8)	Insulating bushings:	otek Anbores Ans	Noo
rek Anb	- suitably fixed	botek Anbotes Anbo	N
notek p	- material in bushings	Potek Aupotes, Vup.	N YOK
-otek	- material not likely to deteriorate	Ant anboren Ani	N
Annotek	- tubes or guards made of insulating material	Ame anbotek	Who N'
5.10 (5.2.9)	Locking of screwed bushings	Anb otek unbotek	Aup N
5.10 (5.2.10)	Cord anchorage:	botek Anbotek Anbotek	Poo
-otek A	- covering protected from abrasion	Lotek Anbotek Anbo	ek P
otek	- clear how to be effective	Ant anbotek Anb	P
Anba	- no mechanical or thermal stress	And arek anbotek	alpor P
Anbo	- no tying of cables into knots etc.	Anbo sek abotek	Anbar
Anbo.	- insulating material or lining	Anbo. Pek abotek	_{P.} Not
5.10 (5.2.10.1)	Cord anchorage for type X attachment:		N _{Arri}
, ek	a) at least one part fixed	anbotek Anbotek	N
rupo, rek	b) types of cable	Anbo sek abotek A	N
Aupon	c) no damaging of the cable	Anbo. An-botek	AnboN
Anbore	d) whole cable can be mounted	ter Aupole August	AT Note
Anbor	e) no touching of clamping screws	toplek Aupotes Aug	Nation
stek Ant	f) metal screw not directly on cable	botek Anboter And	N N
stek	g) replacement without special tool	otek anbotek Anbo	N



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*ek	IEC 60598-2-5	Arr nbotek Anbo	- V
Clause	Requirement + Test	Result - Remark	Verdict
Anbu	Clands not used as enghereds	Anbo stek anbovek	Anbore
Vupo.	Glands not used as anchorage	ek Vupo, N. Vpolek	Note
F 40	Labyrinth type anchorages	Type Y	N
5.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	inbotek Anbote Anu	e _j r.
5.10 (5.2.10.3)	Tests:	Anbotek Anbotek An	orek P
Aupo	- impossible to push cable; unsafe	Anb tek anbotek	Aupo,N
Aupo	- pull test: 25 times; pull (N)	Anbo. ak abotek	ANN
Aupon	- torque test: torque (Nm):	prek Anbout Anborek	Nobo
otek Aut	- displacement ≤ 2 mm	abotek Anbotes Anb	N N
botek	- no movement of conductors	spotek Aupotes Auto	otek N
potek	- no damage of cable or cord	Anborek Anborek An	N
5.10 (5.2.11)	External wiring passing into luminaire	Anbotek Anbotek	N N Anborek
5.10 (5.2.12)	Looping-in terminals	otek Anbotek Anbotek	Noo
5.10 (5.2.13)	Wire ends not tinned	Anbotek Anbotek Anbote	N AN
Anbotek	Wire ends tinned: no cold flow	anbotek Anbo. ak	-boteP
5.10 (5.2.14)	Mains plug same protection	Anbotek Anbotek	Anbolek
Anbo	Class III luminaire plug	Anbo sek abotek	Noon
ek Vupe	No unsafe compatibility	hootek Anbo ak botel	Nant
5.10 (5.2.16)	Appliance inlets (IEC 60320)	Anbotek Anbotek Anbr	rel P
Vupo.	Installation couplers (IEC 61535)	Anbo. A shotek A	N N
Aupor	Other appliance inlet or connector	Anbour All botek	Anbar
Anborr	Relevant IEC standard	telk Aupon Aur Potek	Note
5.10 (5.2.17)	No standardized interconnecting cables properly assembled	botek Anbotek Anbotek	N _{Amb}
1.10 (5.2.18)	Used plug in accordance with	Anbotek Anbotek Anbo	N N
nbotek	- IEC 60083	anborek Anbore Ak	Nº-
abotek	- other standard	ek abotek Anbotes	Note
5.10 (5.3)	Internal wiring	ok hotek Anborek	P
5.10 (5.3.1)	Internal wiring of suitable size and type	organization with the state of	Pinbi



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Yes	IEC 60598-2-5	Anboten Anbo	
Clause	Requirement + Test	Result - Remark	Verdict
Aupo,	briek Bupotes, Vunn.	Aupo. Al. Potek	pupoter
Anbore.	Through wiring	sk Vupose Vun	Note
k Anbot	- not delivered/ mounting instruction	stek Anbotek Anbo	N
nek an	- factory assembled	anbotek Anbo	N
York	- socket outlet loaded (A):	into otek nabotek Anboi	N
upo.	- temperatures:	(see Annex 2)	N.
Aupor	Green-yellow for earth only	Aupo, K Wolek	N odna
5.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring	k Anborek Anborek	An Pre
ok bu.	Cross-sectional area (mm²)	ok hotek Anboten	Pup
Y VIII	Insulation thickness	hote Ambote Anbote	P
nbote	Extra insulation added where necessary	Anbore And	otek N
5.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	rrent-limiting device	inbot P
Anbotel	Adequate cross-sectional area and insulation thickness	ek Anbotek Anbotek	Anbo
5.10 (5.3.1.3)	Double or reinforced insulation for class II	potek Aupote Aupote	N
5.10 (5.3.1.4)	Conductors without insulation	Anbotek Anbotek Anb	N hotek
5.10 (5.3.1.5)	SELV current-carrying parts	Anbotek Anbotek	Nek
5.10 (5.3.1.6)	Insulation thickness other than PVC or rubber	otek Anbotek Anbotek	Noo
5.10 (5.3.2)	Sharp edges etc.	tek abotek Anbote	P
bo. b	No moving parts of switches etc.	Anbo Anborek Anbo	Р
Aupor	Joints, raising/lowering devices	Vupo. Vr. Potek Vr.	posen
Vupo, o	Telescopic tubes etc.	Aupon K motek	None
Anbore	No twisting over 360°	ek Auporen Aug	, Por
5.10 (5.3.3)	Insulating bushings:	potek Anborek Amb	Na
otek An	- suitable fixed	wotek Anborek Anbo	N N
otek	- material in bushings	and atek Anbotek Anbo	N
Augo stek	- material not likely to deteriorate	And sek anbotek Ar	N
Aupo.	- cables with protective sheath	Alipo. A. apotek	Anboten
5.10 (5.3.4)	Joints and junctions effectively insulated	Anton All hotek	N'A
5.10 (5.3.5)	Strain on internal wiring	otek Pupoje, Mur Potek	P.nb
5.10 (5.3.6)	Wire carriers	abotek Anboten Anbo	N o
5.10 (5.3.7)	Wire ends not tinned	Tiek Vupatek Kupo.	otek N



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	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdic
Aupor	An arek probes Ans set gootek	Anbor Air	pupoter
Anboten	Wire ends tinned: no cold flow	tek Anbotek Anbo	Por
k popor	ek Anbo. Ak botek Anbote. And	stek supotek Aupo	h.
5.11 (8)	PROTECTION AGAINST ELECTRIC SHOCK	ibo kek abotek Anbore	P. 12.
5.11 (8.2.1)	Live parts not accessible	inpo. Ak spotek Aupo	Р
inportek.	Basic insulated parts not used on the outer surface without appropriate protection	Anbotek Anbotek An	hotek
Anbotek	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	e Anbotek Anbotek	Anbore'
stek Ant	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Anbotek Anbotek Anbot	P
Anbotek	Lampholder and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	Anborek Anborek An	otek N
Anbore	Basic insulation only accessible under lamp or starter replacement	ak anbotek Ambotek	Ant Nie
ok ~,0	Protection in any position	ok abotek Anbote	Р
-K	Double-ended tungsten filament lamp	Albor Ar. Hotek Anbote	N P
pole b	Insulation lacquer not reliable	Anbore Ant	N
Anbores	Double-ended high pressure discharge lamp	Anbores Anbo	1boteN
Anbotes	Relevant warning according to 3.2.18 fitted to the luminaire	k Anborek Anborek	And Nek
5.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position	o Anbotek Anbotek	N
5.11 (8.2.3.a)	Class II luminaire:	Anbotek Anbotek Anb	N N
Anborek	- basic insulated metal parts not accessible during starter or lamp replacement	Anbotek Anbotek A	nbote N
Anborek	- basic insulation not accessible other than during starter or lamp replacement	Anbotek Anbotek	N Anbor
otek Anbo	- glass protective shields not used as supplementary insulation	nilotek Anbotek Anbotek	N _A n
5.11 (8.2.3.b)	BC lampholder of metal in class I luminaires shall be earthed	Anbotek Anbotek Anbo	potek N
5.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:	Anborek Anborek	AnboN ^k
Pur.	Ordinary luminaire:	An otek Anbotek	N
Pulgo	- voltage under load (V)	ipates Andrek Anbotek	No
otek An	- touch current:	upotek Antro, Pr.	N N
hotek	- no-load voltage:	botek Anbor An	ote ^K N



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Clause	Requirement + Test	Result - Remark	Verdict
Anbore	And tok above And Lotek	Anbor An	aboter
nnbotek	Other than ordinary luminaire:	ek Anbotek Anbo	Notek
ik nbos	- nominal voltage:	stek anbotek Anbots	N
ok w	Class III luminaire only for connection to SELV	tek abotek Anbore	N
inbotek A.	Class III luminaire not provided with means for protective earthing	Anbotek Anbotek Anbot	N A
5.11 (8.2.4)	Portable luminaire have protection independent of supporting surface	Anborek Anborek	Anbot N
5.11 (8.2.5)	Compliance with the standard test finger or relevant probe	otek Anbotek Anbotek	An Port
5.11 (8.2.6)	Covers reliably secured	otek Anborek Anbo.	N
5.11 (8.2.7)	Discharging of capacitors ≥ 0,5 μF	and tek anbotek Anbo.	N
Upo,	Portable plug connected luminaire with capacitor	Anbo. Anbotek Anb	N
Anbor	Other plug connected luminaire with capacitor	Aupon by by	nboren N
Aupor	Discharge device on or within capacitor	Anbout Anbotek	AUN Jes
Anbois	Discharge device mounted separately	olek Anbor And	Noote

5.12 (12)	ENDURANCE TEST AND THERMAL TEST	botek Anbote And	rek -
Aupotek	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and a specified in 5.13	12.7 after (9.2) before (9.3)	nbote P
5.12 (12.3)	Endurance test:	Aupore Aus	Anb Per
Anbore	- mounting-position	As in normal use	_
rek Anb	- test temperature (°C)	35°C	
hotek p	- total duration (h)	240h	
notek	- supply voltage: Un factor; calculated voltage (V):	By Solar panel and Battery	
Arr. Potek	- lamp used:	Integral LED module	
5.12 (12.3.2)	After endurance test:	ek Anbotek Anbotek	Anbotek
lek bupc	- no part unserviceable	botek Anbore Ans	Panbo
notek A	- luminaire not unsafe	botek Anbote And	ek P
notek	- no damage to track system	Anbotek Anboten Anbo	*ekN
Ans	- marking legible	And Anbotek Ar	P
And	- no cracks, deformation etc.	And otek Anbotek	Anbo P
5.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	MP
5.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	Napo
5.12 (12.6)	Thermal test (failed lamp control gear condition):	anbotek Anbor ak wot	ek N pro



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794	IEC 60598-2-5	tek upo	
Clause	Requirement + Test	Result - Remark	Verdict
Aupo,	And tek Anbotes And	Anbo. A. hotek	~pote.
5.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)	k Anbotek Anbotek	
	- case of abnormal conditions:	otek Anbotek	_
oter An	- electronic lamp control gear	nbotek Anbo	M N
nbotek	- measured winding temperature (°C): at 1,1 Un:	Anborek Anbo. Lek	_
Anbotek	- measured mounting surface temperature (°C) at 1,1 Un	Anbotek Anbotek	AnbotN'
Ame	- calculated mounting surface temperature (°C):	And otek anbotek	MUN
PU.Po.	- track-mounted luminaires	oter And tek upotek	Nopo
5.12 (12.6.2)	Temperature sensing control	inbotek Anbotek Anbote	K N p
Up	- case of abnormal conditions:	And otek Anbotek Anb	_
Anbo	- thermal link	Anbotek Anbotek	upo N
Vupo,	- manual reset cut-out	Anbo. sek abotek	ANN
Vupo,	- auto reset cut-out	lek Anbo, tek abotek	N _{/o}
lek Pup	- measured mounting surface temperature (°C):	botek Anbous Ak botel	N _P
potek	- track-mounted luminaires	vupotek Vupore Vin	Helf N
5.12 (12.7)	Thermal test (failed lamp control gear in plastic lumina	ires):	woleN
5.12 (12.7.1)	Luminaire without temperature sensing control	Anbotek Anbotek	Nek
5.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	tek Anbotek Anbotek	Noo
	Test method 12.7.1.1 or Annex W:	otek Anbotek Anbo	_
o'iek	Test according to 12.7.1.1:	Anti-	N
Anbo	- case of abnormal conditions:	Anbo sek anbotek Ar	_
Yupo ***	- Ballast failure at supply voltage (V)	Anbo sek abotek	_
Aupo	- Components retained in place after the test	ok Anbo ek abotek	N _O ,
ik Vupo	- Test with standard test finger after the test	otek Aupo, ak potek	Nach
otek Ar	Test according to Annex W:	abotek Anbots Am	o⊮ N
botek	- case of abnormal conditions	abotek Anbore Ant	_
hotek	- measured winding temperature (°C): at 1,1 Un:	botek Anbotes An	_
Anbotek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Aupotek Vupotek	_
k Anbo	- calculated temperature of fixing point/exposed part (°C)	otek Anbotek Anbotek	_
o- by	Ball-pressure test:	See Table 5.15 (13.2.1)	. N



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loo ek	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdict
Anbor	And And And	Anbo. All Bolek	anboter
5.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	Anborek
er Anbu	- case of abnormal conditions:	cotek Anbo stek anbotek	_
ooten Ar	- measured winding temperature (°C): at 1,1 Un:	Anboten Anbo	_
Anbotek	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	Anbotek Anbotek An	_
Anbotek	- calculated temperature of fixing point/exposed part (°C)	Anbotek Anbotek	
k Anbor	Ball-pressure test	See Table 5.15 (13.2.1)	Nabote
5.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	inbotek Anbotek Anbote	K N Anb
YUpolo.	- case of abnormal conditions	Anbors K Ant	_
Anboro	- Components retained in place after the test	Anboras Ans Josek	nboten
Anbore	- Test with standard test finger after the test	Anbores Anbo	Nek Niek
5.12 (12.7.2)	Luminaire with temperature sensing control	otek Anborek Anborek	N _{botel}
Pic. Vill.	- thermal link:	Yes No	_
nbore	- manual reset cut-out:	Yes No	_
Anboten	- auto reset cut-out:	Yes No	_
Anbotek	- case of abnormal conditions	Anbores Anbo	_
Anbore	- highest measured temperature of fixing point/ exposed part (°C)::	tek Anbotek Anbotek	_
re but	Ball-pressure test::	See Table 5.15 (13.2.1)	NAME
5.12.1 (-)	Reduction 10 °C of measured temperatures if for outdoor use	Anbotek Anbotek Anbo	iek N M
5.12.2 (-)	Glass covers used within the thermal limits	Proposek Willpose, V.	N
Posek	Anbores Anno arek Anborek Anbore	ok hotek Anbotes	Pupp of Sk
5.13 (9)	RESISTANCE TO DUST, SOLID OBJECTS AND MO	ISTURE Anbore	P'Up
5.13 (-)	If IP > IP 20 the order of tests as specified in clause 5.	.12 Anbotek Anbotek	PAnbo
5.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	Anbores Anbo	_
Anbotes	- classification according to IP:	IP65	_
Anborek	- mounting position during test:	As in normal use	_
Anbotek	- fixing screws tightened; torque (Nm):	ek- Aupolek Aupo.	_
ek nobo	- tests according to clauses:	Clause 9.2.2&Clause 9.2.6	_
niek no	- electric strength test afterwards	otek unbotek Antiote	P
Pak In	a) no deposit in dust-proof luminaire	Anbotek Anbotek	P





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	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdict
Anbore	Ant botek Ant. Whotek	Anbor An	abotek
Anbotek	b) no talcum in dust-tight luminaire	k Anborek Anbo.	Potek
ik Aupo	c) no trace of water on current-carrying parts or SELV parts or where it could become a hazard	otek Anbotek Anbotek	P
jotek Ar	d) i) For luminaires without drain holes – no water entry	inpotek Aupotek Aupot	ek N M
Anbotek	d) ii) For luminaires with drain holes – no hazardous water entry	Anbotek Anbotek An	N
	e) no water in watertight luminaire	Anboren Anb	Nek
k Anbo	f) no contact with live parts (IP 2X)	itek Anbotek Anbo	N
rek on	f) no entry into enclosure (IP 3X and IP 4X)	otek Anbotek Anbo	N
*ek	f) no contact with live parts (IP3X and IP4X)	upo tek upotek Aupon	N
upo, ek	g) no trace of water on part of lamp requiring protection from splashing water	Anbotek Anbotek Anb	P
Anbotek	h) no damage of protective shield or glass envelope	unbotek Anbo	Brek
5.13 (9.3)	Humidity test 48 h	25°C; 93% R.H.	Post

5.14 (10)	INSULATION RESISTANCE AND ELECTRIC STREN	GTH AND OTHER	- bu
5.14 (10.2.1)	Insulation resistance test	Anbotek Anbotek Anb	P A
Anbotek	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	Anbotek Anbotek	_
Aupo.	Insulation resistance (M Ω):	ak Anbo sek sobotek	
Her Anb	SELV	ipotek Vupo, by botek	PAnbo
abovek p	- between current-carrying parts of different polarity:	100ΜΩ	ek P pr
Anbotek	- between current-carrying parts and mounting surface:	100ΜΩ	bote P
Anbotel	- between current-carrying parts and metal parts of the luminaire	100ΜΩ	Anb P
lek Anbr	- 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
notek	- Insulation bushings as described in Section 5:	hotek Anbotes Anbo	N _{Ye} kN
Pur Potek	Other than SELV	And Anbotek An	N
Ans	- between live parts of different polarity	Anto otek Anbotek	Anbon N .ek
Aug	- between live parts and mounting surface	And stek anbotek	N
Ando	- between live parts and metal parts	otek abotek	Nupor
otek Ar	- between live parts of different polarity through action of a switch:	nbotek Anbotek Anbot	N MA



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	IEC 60598-2-5		
Clause	Requirement + Test	Result - Remark	Verdict
Anbor	And tek spore And the spore	Anbor All rek	anbore
	- 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 _{otek} Anbotek
otek an	- Insulation bushings as described in Section 5:	Lotek Anbotek Anbot	, N
5.14 (10.2.2)	Electric strength test	Anbotek Anbotek Anbo	otek P
Anbote	Dummy lamp	Anbores Anbo	N ^{odo}
Anbotek	Luminaires with ignitors after 24 h test	Anborek Anbo	Nack
r anbor	Luminaires with manual ignitors	tek Anbotek Anbo	N
rek na	Test voltage (V):	otek Anbotek Anbote	
-tek	SELV	and tek anbotek Anbote	P
upo,	- between current-carrying parts of different polarity:	500V	P
Anbotek	- between current-carrying parts and mounting surface:	500V	inbor P
Anbore	- between current-carrying parts and metal parts of the luminaire	500V	Panbot
lootek Yur	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek Anbote	Hek N An
Anboren	- Insulation bushings as described in Section 5:	Anbores And otek	nbotell
Aupotes	Other than SELV	Anbores Anbo	anb Nek
Anbote	- between live parts of different polarity:	sk Aupoter, Aup.	Nooke
ek anb	- between live parts and mounting surface	otek Anbotek Anbo	N
otek o	- between live parts and metal parts	notek Anbotek Anbo	N N
Anbotek	- between live parts of different polarity through action of a switch	Anbotek Anbotek Anbo	N
Anbotek	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	k Anbotek Anbotek	Anbotel
ak Aupo	- Insulation bushings as described in Section 5:	otek Anbores Anbo	N
5.14 (10.3)	Touch current or protective conductor current (mA).:	Touch current: 0.06mA(limit:0,7mA)	e ^k P p
Mpoie	Arr botek Anne Motek	Aupoles Aug	potek
5.15 (13)	RESISTANCE TO HEAT, FIRE AND TRACKING		horek
5.15 (13.2.1)	Ball-pressure test	See Test Table 5.15 (13.2.1)	Potek Amborek
5.15 (13.3.1)	Needle-flame test (10 s)	See Test Table 5.15 (13.3.1)	Nabo
5.15 (13.3.2)	Glow-wire test (650°C)	See Test Table 5.15 (13.3.2)	otek P



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(b)	Anbore Anbore An CoteMEC	C 60598-2-5	Anbe tek ab	otek Anbor	r b
Clause	Requirement + Test	anbotek	Result - Remark	abotek Ank	Verdict
Anbor.	Drawf the alice at the COMMON	rek Anborek	Aupo.	hovek	Aupoter. K
5.15 (13.4.1)	Proof tracking test (IEC 60112)	hotek Anbot	Anbor sek	Allabotek	Anboren



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-100,00	Prop. 1. Otek	UUPO,	Di.	101	- Apoker	PULL	V	- Olek
Clause	Requirement + Test	nobot	sk pr	10010	Result - R	emark	boter	Verdict
5.7 (11.2)	TABLES: Creepage dista	nces and	clearanc	es	ok and	otek	Anborek	Pare
Table 11.1	Minimum distances (mm		100	2001.	idal voltag	es otek	Anborek	N
RMS working	ng voltage (V) not exceeding	.0.	50	150	250	500	750	1000
Creepage o	distances	Yun.	obol	ek.	Anbo.	h	ek an	pote. P
Required ba	asic insulation, PTI ≥ 600		0,6	0,8	1,5	3	4	5,5
Measured	Ar. Anboten	Ann	4o.	abotek	Fopo,	ba.	Nego-	Anboten
Required ba	asic insulation, PTI < 600		1,2	1,6	2,5	5	8	10
Measured	An-	otek	> 1.2	/0	o'e' p	nbor	Bu.	olk Napo
Required su	pplementary insulation PTI	≥ 600	-	0,8	1,5	3	4	5,5
Measured	Ambon Air otek	Anboten	VUD	-o/k	-botek	Pupor.	- bi.	ntek-
Required su	pplementary insulation PTI	< 600	-	1,6	2,5	5	8	10
Measured	Anbote. And	dn	Vek	rupo.	w	iek	inpole.	Ano tek
Required re	inforced insulation	555	-	3,2	5	6	8	11
Measured	otek Anboten Anb	.eX	- abutek	- Aupo	A - b	- Notek	Anbote	Pube
Clearances	otek anbotek Ar	upo.	above	k.	upoten	Vila Pote	k anb	otek bu
Required ba	asic insulation		0,2	0,8	1,5	3	4	5,5
Measured	Anti-	Anbo.	- Pr	-yotek	ALIBOYER	And	nter-	Anbotek
Required su	pplementary insulation		-	0,8	1,5	3	4	5,5
Measured	Anbo sek abo	iek Ar	por	Vu.	tek Di	poter-	Anbo	- nbot
	inforced insulation		-	1,6	3	6	8	11
Measured	inpotek Anbo, Pr	botek	Arthore	by	II.	Anbotek	- Anb	
Table 11.2	Minimum distances (mi	m) for nor	n-sinusoi	dal pulse	e voltages	2000	yek X	upo,
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	rak spojek Aupol	be	- Nek	rodna	OK DL	-o/-	-botek	-Anbore
Rated pulse	voltage (peak kV)	10	12	15	20	25	30	40
Required cle		11	14	18	25	33	40	60
Measured	Anbore Ans	Anboten	Anb	40.	-abotek	Aupo	- br	-otot
Rated pulse	voltage (peak kV)	50	60	80	100	-	-	-
Required cle	arances	75	90	130	170	- No.	-abote	Anu
required Cit	cai ai ICES	75	90	130	170		bo.	-



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(loote.	Anbotek Anbotek	IEC 6	0598-2-5	Upore, bu	abotek	Anbore	K Die
Clause	Requirement + Test	Ann	anbotek	Result - Remar	k spotek	And	Verdict

Allowed impression diameter	er (mm):	2mm	Aupotek Aupo
Object/ Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Diffuser	Antores Antones	75 Anborek Anbor	1.03
LED PCB	Anbores Anto	125	0.83
K Aupon August	Anbotes Anbo	ok hotek Ar	pr. Albert

5.15 (13.3.1)	The YUN YK MO, by						Anborek Anborotek				N
Object/ Part Material	No./	Manufacture trademark	er/	appl	Ouration of ication of test me (ta); (s)	specif	tion of ied layer es/No	Durati burnin (s	g (tb)	Ve	rdict
oke. Yur	rek	nbotek	Vupo.	bre	-botek A	Upole.	Ann	ē ^t	Anborel	-	Vup
risology 1	Yupo - tek	- anbotek	Aupon	16 P	hotek	Aupoten	Anb	-tek	, ab	*ek	P
Supplement	ary inform	ation:	anbon Anbon	Yo.	Arrabotek	Anboi	Or W	16c otek	-	abotel	t-

5.15 (13.3.2) TABLE :	Glow-wire test (IEC 6069	95-2-1	1) Anber			Anbore!
Glow wire temperatu	re	:	650°C	potek Aupo	ok butel	
Object/ Part No./ Material	Manufacturer/ trademark	арр	Duration of lication of test ame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Diffuser	ek abotek Anb	30s	Ann	No More	0s	Pass
LED PCB	- ok Polek	30s	Hus	No model	0s	Pass
	of the sample extinguished drop did not ignite the und				vire, and	Yes
Supplementary inform	ation:	P	no rek	Aupolek Aupo	tek upo	tek b

5.15 (13.4)	TABLE: Proof tr	acking test (IEC 6011	2) Annotek Anbotek Ando					N ^k	
Test voltage	e PTI	:	175 V	work.	Anbotek	Anbo	You	_	
Object/ Part No./ Material Manufacturer/ trademark			Withstand 50 drops without failure on three places or on three specimens					Verdict	
ooter An	tek nbote	K Aupo, M	- notek	Anhoten	Ann	-vek	nboth	14	PU
Supplement	ary information:	otek Anbore	An	anbo	JOHN P	'upo	- 1	otek	



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(pote	Antotek Anbotek	Pupo	IEC 60598-2-5	Anbore Ann nbotek	Aupolog Al
Clause	Requirement + Test	P.U.D.	otek anbotek	Result - Remark	Verdict

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Internal wire	APPLIANCE WIRING MATERIAL	2468	20AWG 200°C 300V	UL 758	UL E209489
battery	Various	k hotel	3.2VDC 40AH	IEC 62133	CE
Solar panel	Various	Various	VF:4.0V P:200W	IEC 61730	CE hotek Ar
Plastic of terminal	COVESTRO DEUTSCHLAND AG [SPECIALITY FILMS]	BL(b)(p) 820812	VTM-2, 100°C	UL94	UL Anbotek
LED Anboten	Hung li optoelectronics co., Ltd.	2835	3V 0.5W	oter Anus	Test with appliance
LED PCB	Xingxin Photoelectric Co., Ltd.	SDY-D1	V-0, 130°C	hotek by	Test with appliance



			work HE	C 60598-2-5	Vur				
Clause	Requireme	ent + Test	Ann	c anboth	Resu	lt - Remark	potek A	Verdic	
Anbor	Dr.	JK projec	PUD	- Mar	otek p	nbo	Pro-	pupoter	
ANNEX 2	TABLE:	Temperature	measureme	nts, therma	I tests of S	ection 12	Anb	Por	
Anbot	Type refe	erence	-100/6/t	pose.	: TK02	-E anbotek	Anbo		
	Lamp use	ed		- Mopoyer	: LED			_	
rek	Lamp coi	ntrol gear use	d	Kopo _{ter} .	And	rek or	ibotek Anbo		
upo	Mounting	position of lu	minaire	Arbote Archote	: As in	normal use	anborek Ar		
Anbo	Supply w	attage (W)	r ro	dy,j	: 198.6	W	abotek	_	
Anbo	Supply co	urrent (A)	No. Vision		: 62A	Aupo,	abotek	_	
Aupo	Calculate	d power facto	or	anbatek	Anbo	ak abotek	_		
iek Ant	Table: m	easured temp	eratures corre	= 25 °C:	Aupo	ak bot	· P		
polek	- abnorm	al operating r	node	······································	ek An	Dog My	_		
abotek	- test 1: r	ated voltage.	inpotes.		potek	Aupor Au	_		
Anbotek			ed voltage or		750	70			
ek Anb			to socket-out			Anborr	ak Anbotek	_	
potek p			d voltage or 1,			ar Ant	otek Anbu	_	
Anbotek			ing-in wiring lo		iek Aut	potek.	Anbotek	_	
Anbotek			Temp	perature me	asurement	s, (°C)			
2-4	•		Clause	2 12.4 – norr	nal		Clause 12.5 -	- abnorm	
Part		Test 1	test 2	test 3	test 3	limit	test 4	limit	
Terminal	abotek	Vupo,	31.2	anboten	Anb	Ref.	ootek - Anb	V	
	0.73	100				and the second second	2.12		

	Clause	Clause 12.5 – abnormal				
Test 1	test 2	test 3	test 3	limit	test 4	limit
Pupor.	31.2	arboter.	-Anb	Ref.	ootek Aup	V
Pupoton	46.7	k Aupo	lek - Vupe	105	aborek p	upoter K
k - Aupole	52.4	rek as	potek A	Ref.	abotek.	Anboren
otek - And	58.3	- 010 14-	anbotek	Ref.	-borek	Arbole.
hotek	44.6	up.	Vupotek	Ref.	orek	Anbr
Morek	31.8	Anbon sek	- botek	90	-K - Mc	rek A
	Test 1	31.2 46.7 52.4 58.3 44.6	31.2 46.7 52.4 58.3 44.6	31.2	31.2 Ref 46.7 105 52.4 Ref 58.3 Ref 44.6 Ref.	Test 1 test 2 test 3 test 3 limit test 4 31.2 Ref. 46.7 105 52.4 Ref. 58.3 Ref. 44.6 Ref.



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upo.	anbotek Anboten	VIII.	IEC 60598-2-5	Anbo. tek shotek	Auporer Ar
Clause	Requirement + Test	Amo	otek anbotek	Result - Remark	Verdict

ANNEX 3	Screw terminals (part of the luminaire)	N
(14)	SCREW TERMINALS	N
(14.2)	Type of terminal:	_
Aug Polek	Rated current (A)	n' <u> </u>
(14.3.2.1)	One or more conductors	Anbo N
(14.3.2.2)	Special preparation	N
(14.3.2.3)	Terminal size	Nupor
otek Ar	Cross-sectional area (mm²):	, e
(14.3.3)	Conductor space (mm):	otel ^k N
(14.4)	Mechanical tests	N N
(14.4.1)	Minimum distance	Nek
(14.4.2)	Cannot slip out	N
(14.4.3)	Special preparation	N
(14.4.4)	Nominal diameter of thread (metric ISO thread):	N VUI
upore	External wiring	botter N
Anbore	No soft metal	Negation
(14.4.5)	Corrosion	Nek
(14.1.6)	Nominal diameter of thread (mm):	Note
rek ant	Torque (Nm)	N
(14.4.7)	Between metal surfaces	N P
'b'	Lug terminal	N
Anbo.	Mantle terminal	Arbote N
Anbo,	Pull test; pull (N)	AntoN
(14.4.8)	Without undue damage	Notes



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And	IEC 60598-2-5	And sk botek	upo.
Clause	Requirement + Test	Result - Remark	Verdict
ANNEX 4	Screwless terminals (part of the luminaire)	ak Anborek Anborek	A N
(15)	SCREWLESS TERMINALS	hore Ann botek Anbotek	N
(15.2)	Type of terminal:	Anbore Anborek Anbo	_
Auporo	Rated current (A):	Anbore Antek Ar	·
(15.3.1)	Material	Anbore K Morek	^{Vup} ole.
(15.3.2)	Clamping	ek Aupoter Aug Potek	Note:
(15.3.3)	Stop	otek Pupoten Pupo	N
(15.3.4)	Unprepared conductors	botek Anbotek Anbo	N
(15.3.5)	Pressure on insulating material	hotek Anbotel Anbo	,ek N
(15.3.6)	Clear connection method	And Andorek An	N
(15.3.7)	Clamping independently	And otek Anborek	hupor N
(15.3.8)	Fixed in position	And tek abotek	ANN.
(15.3.10)	Conductor size	orek Anbo	Nipe
Her Au	Type of conductor	upotek Aupon ek pot	N N
(15.5.1)	Terminals internal wiring	anbotek Anbote An	otek N
(15.5.1.1)	Pull test spring-type terminals (4 N, 4 samples):	abotek Anbore Am	N N
(15.5.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	abotek Anbore	N.k
hote	Insertion force not exceeding 50 N	ok botek Anbotek	Amen
(15.5.1.2)	Permanent connections: pull-off test (20 N)	k notek Anboten	N
(15.5.2)	Electrical tests	inbote Ambote	N
pole.	Voltage drop (mV) after 1 h (4 samples):	Anbore And otek and	otek N
Anbores	Voltage drop of two inseparable joints	Anbotes Anb	NoteN
Anbotek	Number of cycles:	Anbotek Anbo	
Anbote	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	ek Anbotek Anbotek	Anbor
potek A	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	botek Ambotek Anbotel	Nan
Anbotek	After ageing, voltage drop (mV) after 25th alt. 25th cycle (4 samples):	Anbotek Anbotek Anb	n Dotek N
Anboren	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples):	Anborek Anborek	AnboN ^R
(15.6)	Terminals external wiring	ok hotek Aupotek	PN
V	Terminal size and rating	Note: Augustek	Nu
(15.6.1)	Conductors	Anbores Ansa stek anbo	N
abotex	Terminal size and rating	upotek Anbo. K	N Ster N



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Anbo.	by.	Net No	pole	VUL	IEC 605	98-2-5	Ant	50.	h.	elt as	pore
Clause	Requi	rement + Te	st borek	Anbo	- N	bu.	. Resu	ılt - Rema	rk And	Yata	Verdict
15.6.2	Macha	anical tests	VUpore	3/4 p.1	ypo,	bi.	Norok	Anhoren	An	o tok	N
A CO		VII.		orek	Aupole	P.U.	VoteV	Anbo	iek.	Aupo sek	7
(15.6.2.1)		est spring-ty nples); pull						k Du	botek	Aupo.	N _U
(15.6.2.2)		est pin or tab I)				po,	Anb	otek	Anboren	ant Ant	ootek N
Anborek		est pin or tab				Anbote	rok b	nborek	Ant	otek	Anbo'N
(15.6.3)	Electri	ical tests	Augo	-rel-	anbotek	Anb	0,0	hot	alk.	Aupoten	A.D.
k bu	Tests	according 1	5.6.3.1 -	+ 15.6.3.2	in IEC	60598-1	"Upone	bren.	otek	Anbotek	Ŋ
(15.6.3.1) (15.6.3.2)	TABL	E: Contact	resistar	nce test /	Heating	g tests	Aupote	otek bu	Anbotek	Aupote	otek N
anbotek	Voltag	ge drop (mV) after 1	h Anbot		Anbo	4	obotek	Anbore	OK been	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	Pupor-	br.	4ek	Anbaten	-Aug	No.	-doo's	k b	Upo,	bu
v hotek V		Voltage dro	p of two	inseparal	ole joints	S P	upor	ba.	otek	Anboron	N
in bies	hotek	Voltage dro	p after 1	0th alt. 25	oth cycle	otek	Aupore	-K	notek	Anbore	N P
^u po _{ter}	VU.	Max. allowe	ed voltag	e drop (m	ıV)	Noglek	Anbo	V	YUR POSEN	Anb	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	- del-	VUPO46k	- bug	- ok	700	lek	Anbore	Picco	ntel-	Aupotek
Anbore		Voltage dro	p after 5	0th alt. 10	00th cyc	le	notek	Anbore	P.	up rek	Noo
ek anb	otek	Max. allowe	ed voltag	e drop (m	ıV)	:	"otek	Anb	oter	Anba	
terminal	- 1	1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	Vup.	-0/4	- hotel	p	Upole.	Fire	-Voto	nn b otek	Anbi	. oV
PUP.	- 00	Continued a	ageing: v	oltage dr	op after	10th alt.	25th cyc	ele	abo	iek V	N.
Aupa	, p	Max. allowe	ed voltag	e drop (m	ıV)	, ibot	er	Aupa		botek	
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop (mV)		hotek	Ari	pote.	Vien	rek	nbetek	-Anbe	Jo.	hotek	p.c
potek A	Upo.	Continued a	ageing: v	oltage dr	op after	50th alt.	100th cy	/cle	ipo,	Pure Proj	o⊮ N
abotek	Aupor	Max. allowe	ed voltage	e drop (m	V)	Upo.	- A	otek	Anboien	N Dura	_
terminal		1	2	3	4	5	6	7	8	9	10
Cilinia	voltage drop (mV)										



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4	GENERAL REQUIREMENTS		- Ar
4.4	Integral modules tested assembled in the luminaire	Anbotek Anbotek Ar	bot P Anbotek
4.5 Anbotell	Independent modules complies with requirements in IEC 60598-1	tek Anbotek Anbotek	Notek
- Vur	k korek Anbo Ak rek	abore. And ak hotek	Anbo
5	GENERAL TEST REQUIREMENTS		ak — Aup
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	potek N
Aupo, rak	General conditions for tests in Annex A	(see Annex A)	AnbotN
Mpor	And And Andrew	tek Vupo, W. Vk	Anboten
6	CLASSIFICATION		-100tel
dek and	Built-in module	Yes No 🛛	—
Jek .	Independent module:	Yes No	_
Yupo, *ek	Integral module:	Yes No	_
Anbotek Anbotek	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.	ek Anbotek Anbotek	
- ctel	MADIZINO	r rotek Aupo,	n abovek
7	MARKING	No. Vun	F 700
D. B.	Requirements not applicable to the evaluated produ	uct.oo. Anbore	N ARE
8	TERMINALS	Processing Processing	oter pr
Dir.	Screw terminals according section 14 of IEC 60598	1. All as soften	nbotek N v
Anboten	Note Note Must	K WAG. IV.	And
Anboten	Separately approved; component list	(see Annex 2)	NO SEL
tek vipo	Part of the luminaire	(see Annex 3)	N N
10/4	Screwless terminals according section 15 of IEC 60	by hope but	Name
Upo, b.	Separately approved; component list	(see Annex 2)	Her N An
Anbore.	Part of the luminaire	(see Annex 4)	_{botel} N
Aupolen	Connectors according IEC 60838-2-2:	k Anboten Anb	N/r
Anbotek	Separately approved; component list	(see Annex 2)	N Notek
9 (9)	PROVISION FOR PROTECTIVE EARTHING	*so _k *upo,	-Anbore
potek An	Requirements not applicable to the evaluated produ	uct. nbotek Anbourek	iek N Ant
10 (10)	PROTECTION AGAINST ACCIDENTAL CONTAC	T WITH LIVE PARTS	bosek
Aug.	Requirements not applicable to the evaluated produ	uct. And sek shotek	Anboten V
Aupore.	An otek Anborek Anbo	Her Auport Aus	anbotek
11 (11)	MOISTURE RESISTANCE AND INSULATION		nbote
ootek Ant	After storage 48 h at 91-95% relative humidity and resistance with d.c. 500 V ($M\Omega$):	20-30 °C measuring of insulation	ek P Anb
Anboier	For basic insulation \geq 2 M Ω	100ΜΩ	o ^{tek} P
- York	VIDA VIV. VOLO. VIDA	Mar Mar N.	

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in otek	For double or reinforced insulation \geq 4 M Ω :	Ann	anbotek Anb	N
Anbotek	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	Anbotek	Anbotek	Anbotek
Anbotek		Anbotek	Anbotek	Anbotek

12 (12)	ELECTRIC STRENGTH		Anborr
potek V	Immediately after clause 11 electric strength test for 1 min	Anbotek Anbotek Anbo	ek P Anh
Anbo.	Basic insulation for SELV, test voltage 500 V	500V	P P
Anbo,	Working voltage ≤ 50 V, test voltage 500 V	Aupo, Air apolek	Anbot N
Anbor	Working voltage > 50 V ≤ 1000 V, test voltage (V):	otek Anbour At hotek	An Nite
k Anbo	Basic insulation, 2U + 1000 V	botek Anbola Anbola Andrek	Nabote
otek pr	Supplementary insulation, 2U + 1000 V	abotek Anbore And	ok N and
botek	Double or reinforced insulation, 4U + 2000 V	Anbores Anbores	otek N
Notek	No flashover or breakdown	Anboten An	P
Anbotek	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	tek Anbotek Anbotek	Anbotek

13 (14)	FAULT CONDITIONS		8	An	00
- (14)	When operated under fault conditions the controlgear:			N	25
aborek	- does not emit flames or molten material	anbotek Anbote An	wo*	eΝ	
abotek	- does not produce flammable gases	ek obotek Anbore	11.	Nek	
Anbotel	- protection against accidental contact not impaired	lotek Anbotek Anbotek	Du	N	YE
tek Anb	Thermally protected controlgear does not exceed the marked temperature value	Anbotek Anbotek Anbotel	· ok	N _{pri}	20
Anbotek Anbotek	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	nbote	N otek	27
- (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)	(see appended table)	· /	Anb	07
Anbotek botek	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	Anbotek Anbotek Anbo	bote	N	100
- (14.2)	Short-circuit or interruption of semiconductor devices	(see appended table)	VUD	N	L
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	V	Nabo	340
- (14.4)	Short-circuit across electrolytic capacitors	(see appended table)	0	N P	O.
- (14.5)	After the tests has been carried out on three sample	es:	poter	N	1





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atek .	The insulation resistance \geq 1 M Ω	Ann orek Anborek Anbr	N
Anbo	No flammable gases	And tek anbotek A	N.
Vupo.	No accessible parts have become live	Anbo tek nbotek	PupoN Y
anbot Anbot	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	tek Anbotek Anbotek	ArNore
- (14.6)	Relevant fault condition tests with high-power supply	Anbotek Anbotek Anbo	ek N Anb
13.2	Overpower condition	Anbotek Anbo	botek P
anbotek	Module withstands overpower condition >15 min.	Anbotek Anbo	abo P
Anbotek	Module with automatic protective device or power limiter, test performed 15 min. at limit.	ek Anbotek Anbotek	Anbotek
VUDO.	No fire, smoke or flammable gas is produced	poter Anno tek upotek	Pupor
otek Ant	Molten material does not ignite tissue paper, spread below the module	Ambotek Ambotek Ambot	ek P Anbr
Ub.	Ar Month	100	VO.

15	CONSTRUCTION					Anborek
Anbore.	Wood, cotton, silk, paper and similar fibrous material not used as insulation	Anbotak	Anbo'	notek An	Anbotek	Ant Piek

16 (16)	CREEPAGE DISTANCES AND CLEARANCES		· _	Anbo
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	Anbotek Anbotek Anb	otek N	PZ
Anbo.	Insulating lining of metallic enclosures	Anbo tek abotek	N rody.	V
Anbotek	Basic insulation on printed boards tested according to clause 14	tek Anbotek Anbotek	AntoN	ootek
hotek Anbo	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16	inbotek Anbotek Anbotel	N	Anbot
Anbolek	Creepage distances not less than minimum clearance	Anbotek Anbotek Anb	nbotel ^N	
16 (-)	Conductive accessible parts in compliance with applicable parts of IEC 60598-1	Anbotek Anbotek	AnbeN	otek sk
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND C	ONNECTIONS	VUI	.36
botek An	Screws, current-carrying parts and connections in c (clause numbers between parentheses refer to IEC	compliance with IEC 60598-1 60598-1)	P	Anbor

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		100,0
- (18.1)	Ball-pressure test	See Test Table 18 (18.1)	Anbolo.
- (18.3)	Glow-wire test (650°C)	See Test Table 18 (18.3)	ATNO TO
- (18.4)	Needle-flame test (10 s)	See Test Table 18 (18.4)	Naboti
- (18.5)	Proof tracking test	See Test Table 18 (18.5)	ak N Ant





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19 (19)	RESISTANCE TO CORROSION	40.0
VUD. FEK	- test according 4.18.1 of IEC 60598-1	N ook
Aupo.	- adequate varnish on the outer surface	Hek Pupoli
Aupon	tek abote And k hotek Anbo	wek anbore
20	INFORMATION FOR LUMINAIRE DESIGN	700
	Information in Annex D (informative)	Aupo.
N.	notek Anbor An tek nbote Ane k notek	Anbo.
21	HEAT MANAGEMENT	potek_
21.1	General	ek noo'N
Anboten	Exchangeability is safeguarded by cap or base	New New
21.2	Heat-conducting foil and paste	N b
lek bi	Heat-conducting foil delivered with the module if necessary	Anbotek N
boter	And her Anton An tok above And	work!
22	PHOTOBIOLOGICAL SAFETY	
22.1	UV radiation	And N
VII.	Luminous radiation not exceed 2mW/klm	Pull V
22.2	Blue light hazard	Ambotek Nibt
ie. Vu	Assessed according to IEC TR 62778	nbote NA
22.3	Infrared radiation	abotek N
nbotek	Requirements for infrared radiation when required	A SON
Lotek	Anbor Art sek above Anbor Anbor	nek .
4	ANNEX A - TESTS	
TUP	All tests performed in accordance with the advice	upotek Ppo
	given in Annex H of IEC 61347-1, if applicable	Tel.

SELV-operated LED modules in compliance with Annex I of IEC 61347-2-13

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Clause	Requirement + Test	Result - Remark	Verdict
r More	Anbotek Anb	o An botek Anbotek	Pup
to Vun	CENELEC COMMON MODIFICATIONS (EN)	inbote k hotek Anbote	_An
pore Au	otek Anbotek Anbo	Anbore And Anthone	otek
5.5 (3)	MARKING	Anboter And Otek	ribotek
5.5 (3.3.101)	For luminaires not supplied with terminal block: Adequate warning on the package	Anbotes Anbotek	Aup beek
K Wole	k Aupotek Aupotek Aup	k hotek Anbotek	AUDO
5.6 (4)	CONSTRUCTION	nbore Ann otek Anbote	Ant
5.6 (4.11.6)	Electro-mechanical contact systems	Pupoten Pupo	N I
Anborer A	ntek Anbotek Anbour	Anbores And otek	nbotek
5.10 (5)	EXTERNAL AND INTERNAL WIRING	Anborer And arek	anbotek
5.10 (5.2.1)	Connecting leads	tek Anbotek Anb	Note
ik Aupolek	- without a means for connection to the supply	Lotek Anbotek Anbo	N
otek Anbo	- terminal block specified	Lotek Anbotek Anbo	N
otek or	- relevant information provided	in otek Anbotek Anbo	N
Anbotek	- compliance with 4.6, 4.7.1, 4.7.2, 4.10.1, 11.2, 12 and 13.2 of Part 1	Anbotek Anbotek Av	Vupoi Br
5.10 (5.2.2)	Cables equal to EN 50525	e. Anboten Anbo	Potel
k Anbotek	Replace table 5.1 – Supply cord	tek Anbotek Anbo	P
otek anboi	ek Aupo, ar spotek Aupole, Au	otek Anbotek Anbo	ok M
5.12 (12)	ENDURANCE TESTS AND THERMAL TESTS	And Anborek Anbo	-ek-
5.12 (12.4.2c)	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring	Anbotek Anbotek An	anbotP
ZB Anbotok	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (E	MIN appoint Amorein	Anba
TD bi.	K William W. W. Walley VIII	in) by polek bipoles	<u> Pubbo</u>
3.3)	DK: power supply cords of class I luminaires with label	Albor All Anbotek Anbot	N PL
4.5.1)	DK: socket-outlets	And tek abotek Ant	N
5.2.1)	CY, DK, FI, GB: type of plug	Anbo Mek abotek	hupose N



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Attachment 2: EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES according to EN 60598-2-5:2015 and EN 60598-1:2015					
Clause	Requirement + Test	Result - Remark	Verdict		
. v.	Hek Anbo. All Hek nbote	And Anborra	ly.		
ore Ann	FR: Safety requirements for high buildings		ok Ant		
Anbotek Anbotek	(Arrêté du 30 décembre 2011 portant règlement immeubles de grande hauteur et leur protection panique; Section VIII; Article GH 48, Eclairage) Glow-wire test for outer parts of luminaires:	de sécurité pour la construction des contre les risques d'incendie et de	hore N Anborek		
Hek Pupo,	- 850°C for luminaires in stairways and horizonta travel paths	Anbotek Anbotek Anboten	N Anb		
upotek Ar	- 650°C for indoor luminaires	unbotek Anbour Anbour	ek N		
Anbotek	GB: Requirements according to United Kingdom Building Regulation	Anbotek Anbotek A	otek N		



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Attchment 3: Photo documentation







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Attchment 3: Photo documentation





--- End of report ---