

Report No.: 18240SC30012701

Test Report

Applicant : Zhongshan Litian Lighting Co., Ltd

Block B 4/F, No.2 Yihui NO.2 Road Maohui

Address : Industry, Sisha, Henglan Town, Zhongshan

City, Guang dong Province, China

Product Name : LED landscape light

Date : Jun. 17, 2023







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TEST REPORT IEC 60598-2-13 Luminaires

Part 2: Particular requirements
Section 13: Ground recessed luminaires

Report Number.....: 18240SC30012701

Date of issue.....: Jun. 17, 2023

Tested by: Otto Guo

Approved by: Jeff Zhu

Total number of pages 67 pages of report

Name of Testing Laboratory Shenzhen Anbotek Compliance Laboratory Limited

preparing the Report Location 1:1/F, Building D, Sogood Science and Technology

Park, Sanwei community, Hangcheng Street, Bao'an District,

Shenzhen, Guangdong, China. 518102

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

Shenzhen, Guangdong, China. 518128

Applicant's name Zhongshan Litian Lighting Co., Ltd

Address...... Block B 4/F, No.2 Yihui NO.2 Road Maohui Industry, Sisha,

Henglan Town, Zhongshan City, Guang dong Province, China

Test specification:

Standard.....: IEC 60598-2-13:2006, IEC 60598-2-13:2006/AMD1:2011, IEC

60598-2-13:2006/AMD2:2016 used in conjunction with

IEC 60598-1:2020

Test procedure: Type test

Non-standard test method: N/A



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Test item description.....: LED landscape light

Trade Mark.....:

Manufacturer Zhongshan Litian Lighting Co., Ltd

Block B 4/F, No.2 Yihui NO.2 Road Maohui Industry, Sisha, Henglan Town, Zhongshan City, Guang dong Province, China

Factory Zhongshan Litian Lighting Co., Ltd

Block B 4/F, No.2 Yihui NO.2 Road Maohui Industry, Sisha, Henglan Town, Zhongshan City, Guang dong Province, China

Model/Type reference: 6012-15W, 6012-10W, 6012-12W **Ratings**: 220-240VAC, 50/60Hz, 15W







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

Attachment 1: test report EN IEC 62031:2020+A11:2021

Attachment 2: EN 62493:2015

Attachment 3: IEC TR 62778:2014

Attachment 4: photo documentation

Summary of testing:

Tests performed (name of test and test clause):

EN IEC 60598-1:2021+A11:2022

EN 60598-2-13: 2006+A1: 2012+A12: 2016+A11:

2021

EN IEC 62031:2020+A11:2021

EN 62493:2015

IEC TR 62778:2014

Testing location:

Shenzhen Anbotek Compliance Laboratory Limited

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

China. 518102

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





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Copy of marking plate:

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

LED landscape light Model: 6012-15W

Rating: 220-240VAC, 50/60Hz, 15W IP66

CE



Zhongshan Litian Lighting Co., Ltd

Block B 4/F, No.2 Yihui NO.2 Road Maohui Industry, Sisha, Henglan Town,

Zhongshan City, Guang dong Province, China

Importer: xxxxxx Address: xxxxxx





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Test item particulars::	LED landscape light			
Classification of installation and use:	Fixed installation			
Supply Connection:	Supply cord			
Protection class:	Inbotek Anbotek Anbotek			
Degree of protection:	IP66			
Possible test case verdicts:	anbotek Anbounds Anbotek Anbote			
- test case does not apply to the test object::	N/A			
- test object does meet the requirement:	P (Pass)			
test object does not meet the requirement: F (Fail)				
Testing:	Anbore Anborek Anborek Anbo			
ate of receipt of test item: May 20, 2023				
Date (s) of performance of tests:				
General remarks:	ok hotek Anbote And tek N			
"(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the				
Throughout this report a \square comma / \boxtimes point is u	sed as the decimal separator.			
Clause numbers between brackets refer to clauses	in IEC 60598-1			
General product information:	Anbore Ann otek Anborek Anb			
Unless otherwise specified, models 6012-15W were s	selected as representative models to perform all			
tooto O' N				
tests. IEC 60598-2-20 Clause 20.7 (4.24.2) were tested at le	agetion 2 others were tested at legation 1			





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Ans	IEC 60598-2-13	Ant tek anbotek	Aupo.
Clause	Requirement + Test	Result - Remark	Verdict
iek Anbo	by Spotest Will	otek Anbore Ante	anbott
13.2 (0)	GENERAL TEST REQUIREMENTS	I was	, P
13.2 (0.3)	More sections applicable:	Yes ☐ No ☒ Section/s:	_
13.2 (0.5)	Components	(see Annex 1)	_
13.2 (0.7)	Information for luminaire design in light sources s	tandards	_
13.2 (0.7.2)	Light source safety standard:	IEC 60598-1	_
otek An	Luminaire design in the light source safety standard	hotek Anbotel Anb	Pado
-otek	Anbotes Anbotek Anbote	Arm. Anbotek Anbo.	yek Yes
13.4 (2)	CLASSIFICATION OF LUMINAIRES		Р
13.4 (2.2)	Type of protection:	Class I	P.K
13.4 (2.3)	Degree of protection:	IP66	
13.4 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	_
13.4 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
Arra Otek	Luminaire for rough service:	Yes ☐ No ☒	_
Amb	Anbotek Anbotek Anbotek	And otek Anbotek A	upo
13.5 (3)	MARKING		Aupo.
13.5 (3.2)	Mandatory markings	Anto stek Anbotek	PP
ster Anb	Position of the marking	Surface for enclosure	PAnbo
upotek l	Format of symbols/text	Anbotek Anbo tek noo	ek P AT
13.5 (3.3)	Additional information	Anbotek Anbo. Lek	_{ootel} P
anbotek	Language of instructions	English	~oP ^k
13.5 (3.3.1)	Combination luminaires	sk anbotek Anbote	N/A
13.5 (3.3.2)	Nominal frequency in Hz	50/60Hz	P
13.5 (3.3.3)	Operating temperature	bo. A. abotek Anbote.	P
13.5 (3.3.5)	Wiring diagram	Anbo, Ar shotek Anbot	P An
13.5 (3.3.6)	Special conditions	Anbors All botek An	N/A
13.5 (3.3.7)	Metal halide lamp luminaire – warning	Anbore An-	N/A
13.5 (3.3.8)	Limitation for semi-luminaires	ek Aupole Aur	N/A
13.5 (3.3.9)	Power factor and supply current	otek Anbote And	Panbott
13.5 (3.3.10)	Suitability for use indoors	rupotek Aupoter Aupot	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
anbe	An Andrew Andrew	otek Anbo, An otek	0000
13.5 (3.3.11)	Luminaires with remote control	Anbotek Anbotek Anbot	N/A
13.5 (3.3.12)	Clip-mounted luminaire – warning	Anbotek Anbotek Ant	N/A
13.5 (3.3.13)	Specifications of protective shields	Anbotek Anbotek	N/A
13.5 (3.3.14)	Symbol for nature of supply	hotek Anbotek Anbotek	P _{ilbo}
13.5 (3.3.15)	Rated current of socket outlet	Anbotek Anbotek Anb	N/A
13.5 (3.3.16)	Rough service luminaire	Aupotek Aupotek	N/A
13.5 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	Panbote
13.5 (3.3.18)	Non-ordinary luminaires with PVC cable	abotek Anbotek Anbotel	N/A
13.5 (3.3.19)	Protective conductor current in instruction if applicable	Anbotek Anbotek Anb	N/A
13.5 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	ek Anbotek Anbotek	N/A
13.5 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non-user replaceable light sources	P
13.5 (3.3.22)	Controllable luminaires, classification of insulation provided	Anbotek Anbotek Anbo	N/A
13.5 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component	ak Anbotek Anbotek	N/A
13.5 (3.3.24)	If not supplied with terminal block, information on the packaging	otek Anborek Anborek	N/A
13.5 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided	Anbotek Anbotek Anbo	N/A
13.5 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided	k Anbotek Anbotek	N/A
13.5 (3.4)	Test with water	15s	And P
V. Vuo.	Test with hexane	15s	Pnbo
Ofer by	Legible after test	abore Anti- ak hor	P P







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
ek anb	or Arr poter And	otek Anbor All	200
ntek .	Label attached	otek Anbotek Anbo	P
13.5.1 (-)	Rated load in the manufacturer's instruction (N):	Anbo otek Anbotek Anbo	P
13.5.2 (-)	Rated maximum surface temperature $T(^{\circ}C)$:	Anbo tek anbotek Ar	P
13.5.3 (-)	Information concerning external connection box	Anbo botek	N/A

13.6 (4)	CONSTRUCTION		Riboti
13.6 (4.2)	Components replaceable without difficulty	abotek Anbors All	E P AN
13.6 (4.3)	Wireways smooth and free from sharp edges	abotek Anbore And	otek P
13.6 (4.4)	Lamp holders	abotek Anbote And	N/A
13.6 (4.4.1)	Integral lamp holder	hotek Anboten A	N/A
13.6 (4.4.2)	Wiring connection	ok hotek Anboten	N/A
13.6 (4.4.3)	Lamp holder for end-to-end mounting	An Motek Anbotek	N/A
13.6 (4.4.4)	Positioning	bote, Aug otek aupotek	N/A
nboren	- pressure test (N)	Anborer Anb	_
Anbotek	After test the lamp holder comply with relevant standard sheets and show no damage	Anbotek Anbotek A	N/A
k Anbote	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation	ek Anbotek Anbotek	N/A
work p	- bending test (N)	wortek Anbotek Anbo	_
Anbotek	After test the lamp holder has not moved from its position and show no permanent deformation	Anbotek Anbotek Anbo	N/A
13.6 (4.4.5)	Peak pulse voltage	Anbore And orek	N/A
13.6 (4.4.6)	Centre contact	ak Anbote And otek	Rotek
13.6 (4.4.7)	Parts in rough service luminaires resistant to tracking	otek Anboten Anbo	N/A
13.6 (4.4.8)	Lamp connectors	botek Anbotek Anbo	× P
13.6 (4.4.9)	Caps and bases correctly used	And Anbotek Anbo	N/A
13.6 (4.4.10)	Light source for lamp holder or connection according IEC 60061 not connected another way	Anbotek Anbotek An	N/A
13.6 (4.5)	Starter holders	ek Anbore Ann otek	N/A
ek Anbo	Starter holder in luminaires other than class II	otek Anbotes Anb	N/A
otek ar	Starter holder class II construction	notek anboten Anbo	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
y Aupo	And Andrew Andrew	potek Aupor An notek	drag
13.6 (4.6)	Terminal blocks	abotek Anbore. Ann	N/A
notek	Tails	Anbotek Anbotek Anbo	N/A
Tur	Unsecured blocks	Ant Anbotek Anbotek	N/A
13.6 (4.7)	Terminals and supply connections	And tek abotek	hpo P
13.6 (4.7.1)	Contact to metal parts	Anbo sek sporek	AUDIO
13.6 (4.7.2)	Test 8 mm live conductor	stek Aupo, ak hotek	Bupo
otek Anl	Test 8 mm earth conductor	upotek Aupoir Air	F P
13.6 (4.7.3)	Terminals for supply conductors	abotek Anbore An	N/A
13.6 (4.7.3.1)	Welded method and material	Anbotek Anbotek Ant	N/A
Aupo	- stranded or solid conductor	Anbo tek	N/A
Aupo.	- spot welding	tek Aupo, ek bojek	N/A
rek Anb	- welding between wires	botek Anbor An hotel	N/A
botek	- Type Z attachment	obotek Anbore An	« [™] N/A
botek	- mechanical test according to 15.6.2	abotek Anbote And	N/A
por notek	- electrical test according to 15.6.3	hotek Anbotes A	N/A
An-	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	-k hotek Anbotet	N/A
13.6 (4.7.4)	Terminals other than supply connection	k hotek Anbotek	N/A
13.6 (4.7.5)	Heat-resistant wiring/sleeves	pore And otek Anbotek	N/A
13.6 (4.7.6)	Multi-pole plug	Anbores Anno otek Anbo	N/A
Anboten	- test at 30 N	Anboter Ant	N/A
13.6 (4.8)	Switches	Anbotek Anbo tek	N/A
Anbotek	- adequate rating	ek Anbotek Anbo	N/A
ok abo	- adequate fixing	otek Anbotek Anbo	N/A
*eX	- polarized supply	tek nbotek Anbote	N/A
Aupolek	- compliance with IEC 61058-1 for electronic switches	Anbotek Anbotek Anbo	N/A
13.6 (4.9)	Insulating lining and sleeves	Anboten Anbutek	N/A
13.6 (4.9.1)	Retainment	k Aupolek Aupo.	N/A
k vupo	Method of fixing:	otek anbotek Anbore	N/A
13.6 (4.9.2)	Insulated linings and sleeves:	ok hotek Anbote	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
orek Ar	Resistant to a temperature > 20 °C to the wire temperature or	inbotek Anbotek Anbot	N/A
Anbore.	a) & c) Insulation resistance and electric strength	Anbote And wotek Anh	N/A
Anboten	b) Ageing test. Temperature (°C)	Anbores And orek	N/A
13.6 (4.10)	Double or reinforced insulation	k Anboten Anbotek	N/A
13.6 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	stek Anbotek Anbotek	N/A
o, bu	Safe installation fixed luminaires	nboth Am botek Anbote	N/A
upote	Capacitors and switches	Anbore And	N/A
13.6 (4.10.2)	Assembly gaps:	Anbotek Anbotek	N/A
- abote	- not coincidental	ek abotek Anbote	N/A
ok ok	- no straight access with test probe	ek abotek Anbote	N/A
13.6 (4.10.3)	Retainment of insulation:	Anbotek Anbotek Anbote	N/A
Anbotek	- fixed	Anbotek Anbo. All	N/A
anbotek	- unable to be replaced; luminaire inoperative	Anborek Anbor A	N/A
habore	- sleeves retained in position	ek upotek Anboro	N/A
ek no	- lining in lamp holder	ak abotek Anbote	N/A
13.6 (4.10.4)	Protective impedance device	Anbotek Anbotek Anbotek	N/A
Anbotek	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor	Anbotek Anbotek Ar	N/A
Anbotek Anbotek	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)	ek Anbotek Anbotek	N/A
arek n	Capacitors comply with IEC 60384-14	stek anbotek Anbor	N/A
Anboiek	Resistors comply with test (a) in 14.2 of IEC 60065	Anbotek Anbotek Anbot	N/A
13.6 (4.11)	Electrical connections and current-carrying parts	Anboten And	N/A
13.6 4.11.1)	Contact pressure	K Anbotek Anbotek	N/A
13.6 (4.11.2)	Screws:	anbotek Anbotek Anbotek	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
odna Anbo	And And And And	otek Anbo' All Stek	anbo
otek pr	- self-tapping screws	notek Anboten Anbo	N/A
, ek	- thread-cutting screws	run otek Pupotek Pupo	N/A
13.6 (4.11.3)	Screw locking:	Anbotek Anbotek Ant	N/A
Anborer	- spring washer	Anborer And	N/A
k Anbot	- rivets	otek Anbotek Anbo	N/A
13.6 (4.11.4)	Material of current-carrying parts	nbotek Anbotek Anbote	N/A
13.6 (4.11.5)	No contact to wood or mounting surface	Anborek Anborek Anb	N/A
13.6 (4.11.6)	Electro-mechanical contact systems	Anbotek Anbotek	N/A
13.6 (4.12)	Screws and connections (mechanical) and glands	otek Anbotek	P
13.6 (4.12.1)	Screws not made of soft metal	hotek Anbotek Anbotek	N/A
	Screws of insulating material	Anbotek Anbotek Anb	P
Anbotek	Torque test: torque (Nm); part	Fixed light cover screw 2.94mm, 0.5Nm	Anbotek Anbotek
rek Anbore	Torque test: torque (Nm); part:	Fixed support screw 2.95mm, 0.5Nm	ARoofe
-rek	Torque test: torque (Nm); part	otek anbotek Anbor	N/A
13.6 (4.12.2)	Screws with diameter < 3 mm screwed into metal	Anbotek Anbotek Anbo	N/A
13.6 (4.12.4)	Locked connections:	ak abotek Anbotek	N/A
rk bu.	- fixed arms; torque (Nm)	ok hotek Anboten	N/A
Y Aug	- lamp holder; torque (Nm)	ote Air wotek Anbotek	N/A
ote, V	- push-button switches; torque 0,8 Nm:	Anbore And atek anbor	N/A
13.6 (4.12.5)	Screwed glands; force (Nm)	Anbotek Anbotek An	N/A
13.6 (4.13)	Mechanical strength	ok botek Anbotek	P _{rel}
13.6 (4.13.1)	Impact tests:	ootek Anbotek Anbotek	Anbor Anbr
otek Ar	- fragile parts; energy (Nm)	Light cover 0.50Nm	У Р







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
ik Wipo	And And And	niek Anbot Att	des
ojek or	- other parts; energy (Nm):	Enclosure for 0.70Nm	P
*ek	1) live parts	Tup ofek Vupotek Vupo,	P
Tupe -tek	2) linings	Anbo rek anbotek Anh	N/A
Anbo.	3) protection	Anbo sek abotek	Anbore P
Aupo.	4) covers	Anbo. A. botek	AUDIE
13.6 (4.13.2)	Metal parts have adequate mechanical strength	otek Anbotek Anbotek	Rupe
13.6 (4.13.3)	Straight test finger	Anbotek Anbotek Anbotek	otek P
13.6 (4.13.4)	Rough service luminaires	Anbotek Anbotek	N/A
- Sporte	- IP54 or higher	ek abotek Anbote	N/A
ok ok	a) fixed	lek abotek Anbote	N/A
V. VIII	b) hand-held	ipor ak Polek Vupole	N/A
pore	c) delivered with a stand	Anbore Ant botek Anbro	N/A
Anbotek	d) for temporary installations and suitable for mounting on a stand	Anbotek Anbotek A	N/A
13.6 (4.13.6)	Tumbling barrel	ek Anbotek Anbotek	N/A
13.6 (4.14)	Suspensions, fixings and means of adjusting	ibotek Anbo tek abotek	PAN
13.6 (4.14.1)	Mechanical load:	Anbotek Anbotek Anbo	ek P
Vie.	A) four times the weight	0.73*4=2.92kg	Pk
Ann otek	B) torque 2,5 Nm	And otek anbotek	Aupo.
Anb	C) bracket arm; bending moment (Nm)	And otek Anbotek	N/A
Vup.	D) load track-mounted luminaires	Joseph And stek Suposek	N/A
otek Ar	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	Anbotek Anbotek Anbot	N/A
Votek.	Metal rod. diameter (mm)	Wolek Pupoles Vu	N/A
Anborek	Fixed luminaire or independent control gear without fixing devices	k Anbotek Anbotek	N/A
13.6 (4.14.2)	Load to flexible cables	ootek Anborek Anborek	N/A
- As-	Mass (kg):	into tek abotek Anbot	_







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An	IEC 60598-2-13	An-	Aupr
Clause	Requirement + Test	Result - Remark	Verdict
stell as	Stress in conductors (N/mm²):	otek Anbotek Anbotes	N/A
*6K	Mass (kg) of semi-luminaire	Tupo, tek upotek Vupo,	N/A
Anbo.	Bending moment (Nm) of semi-luminaire	Anbor Ant	N/A
13.6 (4.14.3)	Adjusting devices:	k Anbotek Anbotek	N/A
k Anbor	- flexing test; number of cycles:	stek Anbotek Anbo	N/A
otek no	- strands broken:	otek Anbotek Anbot	N/A
-tek	- electric strength test afterwards	up stek vupotek Vupo.	N/A
13.6 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	Anbotek Anbotek Anb	N/A
13.6 (4.14.5)	Guide pulleys	Anbotek Anbotek	N/A
13.6 (4.14.6)	Strain on socket-outlets	potek Anbotek Anbotel	N/A
13.6 (4.15)	Flammable materials	Anborek Anbo. Lek abs	N/A
Anborek	- glow-wire test 650°C	See Test Table 13.15 (13.3.2)	N/A
anbotek	- spacing ≥30 mm	Anborek Anbors A	N/A
- abore	- screen withstanding test of 13.3.1	ek nbotek Anbote	N/A
ek ab	- screen dimensions	ak abotek Anbote	N/A
, ok	- no fiercely burning material	po. Ar. społek Aupore.	N/A
por p	- thermal protection	Anbor An botek Anbo	N/A
Anbore	- electronic circuits exempted	Anbore An borek Ar	N/A
13.6 (4.15.2)	Luminaires made of thermoplastic material with lamp of	control gear	N/A
ek abo	a) construction	tek nbotek Anbote	N/A
-ak	b) temperature sensing control	bek abotek Anbote	N/A
00, b	c) surface temperature	Aupo, W. Potek Pupo,	N/A
13.6 (4.16)	Luminaires for mounting on normally flammable s	urfaces	N/A
Anbore	No lamp control gear:	(compliance with Section 12)	N/A
Anbores.	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces	otek Anbotek Anbotek	N/A







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	IEC 60598-2-13	
Clause	Requirement + Test Result - Remark	Verdict
ik Aupo	ak hotek Anbote. And tek attatek Anbo. An	des
13.6 (4.16.1)	Lamp control gear spacing:	N/A
Aupore	- spacing 35 mm	N/A
	- spacing 10 mm	N/A
13.6 (4.16.2)	Thermal protection:	N/A
	- in lamp control gear	N/A
Pr. Bir	- external	N/A
upole	- fixed position	N/A
Anbore	- temperature marked lamp control gear	N/A
13.6 (4.16.3)	Design to satisfy the test of 12.6 (see clause 12.6)	N/A
13.6 (4.17)	Drain holes	N/A
V. Div.	Clearance at least 5 mm	N/A
13.6 (4.18)	Resistance to corrosion	N/A
13.6 (4.18.1)	- rust-resistance	N/A
13.6 (4.18.2)	- season cracking in copper	N/A
13.6 (4.18.3)	- corrosion of aluminium	N/A
13.6 (4.19)	Ignitors compatible with ballast	N/A
13.6 (4.20)	Rough service vibration	N/A
3.6 (4.21)	Protective shield	N/A
13.6 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	N/A
otek A	Shield of glass if tungsten halogen lamps	N/A
3.6 4.21.2)	Particles from a shattering lamp not impair safety	N/A
13.6 (4.21.3)	No direct path	N/A
13.6 (4.21.4)	Impact test on shield	N/A
Oto Vi	Glow-wire test on lamp compartment	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
3K Mpo	K Notek Anboter And	otek Aupo, K Motek	anb
13.6 (4.22)	Attachments to lamps not cause overheating or damage	Inbotek Anbotek Anbote	N/A
13.6 (4.23)	Semi-luminaires comply Class II	Anbore Ant Lotek Ant	N/A
13.6 (4.24)	Photobiological hazards	Anbores And Otek	N/A
13.6 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	Anbotek Anbotek	N/A
13.6 (4.24.2)	Retinal blue light hazard	unbotek Anbotek Anboten	P
nbotek	Class of risk group assessed according to IEC/TR 62778	Anbotek Anbotek Anb	_
Ann	Luminaires with Ethr:	And Anbotek A	upo. Pek
AUD	a) Fixed luminaires	RG0	Vupo.
Aupo	- distance x m, borderline between RG1 and RG2:	ten Anbotek	N/A
iek Vul	- marking and instruction according 3.2.23	botek Anbo tek nbotek	N/A
botek	b) Portable and handheld luminaires	unpotek Aupo, rek apo	N/A
Anbotek	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	Anbotek Anbotek A	N/A
ek Anbore	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	ek Anbotek Anbotek	N/A
13.6 (4.25)	Mechanical hazard	hoo hek abotek Anbore	_ P
boy b	No sharp point or edges	Anbor Anborek Anbo	Р
13.6 (4.26)	Short-circuit protection	Anbur ak abotek Ar	N/A
13.6 4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts	ak Anbotek Anbotek	N/A
13.6 (4.26.2)	Short-circuit test with test chain according 4.26.3:	botek Anbotek Anbotek	N/A
ote. b	Supply source ES1 PSE	Anbote, And Otek Vupot	N/A
iupoje.	Test chain not melt through	Anbote, And otek An	N/A
Anboten	Test sample not exceed values of Table 12.1 and 12.2	k abotek Anbotek	N/A
3.6 (4.27)	Terminal blocks with integrated screwless protect	ive earthing contacts	N/A
Yu.	Test according Annex V	or Annotek Anbotek	N/A
Ole Vi	Pull test of terminal fixing (20 N)	inbore Am stek anbore	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdic
anbo	Tok hotek Aubots Ann	otek Aupo K. Polsk	pnb
otek pr	After test, resistance < 0,05 Ω	abotek Aupote Aur	N/A
-hotek	Pull test of mechanical connection (50 N)	Thorek Aupoten Aug	N/A
Ans	After test, resistance < 0,05 Ω	Ans Anbotek Anbotek	N/A
AUD	Voltage drop test, resistance $< 0.05 \Omega$	And tek abotek	N/A
13.6 (4.28)	Fixing of thermal sensing control	Anbo Lok botek	N/A
Aupo,	Not plug-in or easily replaceable type	otek Aupo, ok potek	N/A
otek An	Reliably kept in position	inbotek Anbore All hote	N/A
inbotek tek	No adhesive fixing if UV radiations from a lamp can degrade the fixing	Anbotek Anbotek Anb	N/A
Aupo	Not outside the luminaire enclosure	Anbo sek abotek	N/A
Vupo,	Test of adhesive fixing:	k Aupon ok hotek	N/A
Anbo	Max. temperature on adhesive material (°C)	otek Anbore An hotek	_
stek Ant	100 cycles between t min and t max	spotek Aupore August	N/A
botek	Temperature sensing control still in position	abotek Anbore Ano	N/A
13.6 (4.29)	Luminaires with non-replaceable light source	Anboren Anb	N/A
A. hotek	Not possible to replace light source	k botek Anbote. A	N/A
Anbore	Live part not accessible after parts have been opened by hand or tools	lek Anbotek Anbotek	N/A
13.6 (4.30)	Luminaires with non-user replaceable light source	hotek Anbo, ak hotek	Pan
ibotek p	If protective cover provide protection against electric s electric shock risk" symbol:	shock and marked with "caution,	e ^k P
Ann	At least one fixing means requiring use of tool	Anu otek Anbotek Ar	N/A
13.6 (4.31)	Insulation between circuits	Anbo sek anbotek	N/A
ek Anbo	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	hotek Anbotek Anbotek	N/A
Anbotek A	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	Anbotek	N/A
13.6 (4.31.1)	SELV or PELV circuits	ek Anbotek Anbotek	N/A
anbo Anbo	Used SELV/PELV source	Potek Anbore Ann	N/A
rek or	Voltage ≤ ELV	otek Anbore Anti-	N/A







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Ville	IEC 60598-2-13	Arr. sek abotek	Vupo -
Clause	Requirement + Test	Result - Remark	Verdict
ant Ant	or An Anbote Anbote And	otek Aupor Ar. notek	prob
otek	Insulating of SELV/PELV circuits from LV supply	storek Anbores Ann	N/A
Anbotek	Insulating of SELV/PELV circuits from other non SELV/PELV circuits	Anbotek Anbotek Anbo	N/A
	Insulating of SELV/PELV circuits from FELV	Anbores And Otek	N/A
K Anbore	Insulating of SELV/PELV circuits from other SELV/PELV circuits	Anbotek Anbotek	N/A
otek b	SELV/PELV circuits insulated from accessible parts according Table X.1	nbotek Anbotek Anbotek	N/A
inbotek inbotek	Plugs not able to make any electrical contact with socket-outlets of other voltage systems	Anbotek Anbotek Anb	N/A
Anbotek	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek	N/A
tek Anbo	Plugs and socket-outlets does not have protective conductor contact	tek Anborek Anborek	N/A
13.6 (4.31.2)	FELV circuits	Anbotek Anbotek Anbore	N/A
Anbotek	Used FELV source	Anboten Anbotek	N/A
upotek	Voltage ≤ ELV	Anborek Anbo	N/A
anbo'	Insulating of FELV circuits from LV supply	ek vupotek Vupo.	N/A
lek bu	FELV circuits insulated from accessible parts according Table X.1	botek Anbotek Anbotek	N/A
botek	Plugs not able to make any electrical contact with socket-outlets of other voltage systems	Anbotek Anbotek Anbo	N/A
Anbotek	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek An	N/A
Anbo.	Socket-outlets have protective conductor contact	ek Anbo ek botek	N/A
13.6 (4.31.3)	Other circuits	potek Anbotek Anbotek	Panb
Anborek	Other circuits insulated from accessible parts according Table X.1	Anbotek Anbotek Anbo	_{botek} P
Anbore	Class II construction with equipotential bonding for prowith live parts:	tection against indirect contacts	N/A
/r ~/o	- conductive parts are connected together	tek abotek Anboten	N/A
- Paris	- test according 7.2.3	o. M. stek "Upoles	N/A







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Arm	IEC 60598-2-13	An abotek	Anbu
Clause	Requirement + Test	Result - Remark	Verdic
y Aupo	ok hotok Aupote, Aur	otek Aupo, by Molek	prob
otek Pi	- conductive part not cause an electric shock in case of an insulation fault	anbotek Anbotek Anbot	N/A
inpose.	- equipotential bonding in master/slave applications	Anbore Ant work Anh	N/A
Anbotek	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	Anbotek Anbotek	N/A
k hot	- slave luminaire constructed as class I	tek abotek Anbote	N/A
13.6 (4.32)	Overvoltage protective devices	or Ar. botek Anboten	N/A
Pu.	Comply with IEC 61643-11	nbots Anbote	N/A
nbore	External to controlgear and connected to earth:	Anbore And	N/A
Anbores	- only in fixed luminaires	Anbotes And otek	N/A
Anboren	- only connected to protective earth	Anbotes Anb	N/A
13.6 (4.33)	Luminaire powered via information technology co	mmunication cabling	N/A
rek not	Requirements for Class III luminaire	otek Anbotek Anbo	N/A
hotek	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector	Anbotek Anbotek Anbo	N/A
Anborek	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A
13.6 (4.34)	Electromagnetic fields (EMF)	eek shotek Anboron	P. of
botek Anb	No harmful electromagnetic fields	The submitted samples were LED-light-source technology, they were found to comply with the requirement of EN 62493:2015	An An ootek
13.6 (4.35)	Protection against moving fan blades	Anborek Anbo	N/A
Anbotek	Test with a standard test finger	ek nobotek Anbou	N/A
ak Anbo	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire	ootek Anbotek Anbotek	N/A
pore. A	Blades rounded with radius ≥ 0.5 mm and:	Ambores Ambor	N/A
Anboter	-hardness less than D60 Shore	Anbores Anb	N/A
Anborek	-peripheral speed less than 15 m/s	Anboten Anbo tek	N/A
anborek	-input power of fan ≤ 2 W at rated voltage	k Anbotek Anbox	N/A
13.6 (4.36)	Track-mounted luminaires	otek Anbotek Anbote	N/A
otek An	Test in accordance with Annex A of IEC60570:2003/AMD2:2019	nbotek Anbotek Anbote	N/A







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And	IEC 60598-2-13	And tek nbotek	Aupor
Clause	Requirement + Test	Result - Remark	Verdict
y Aupo	Ant Ante	otek Anbor All	4 500
13.6.1 (-)	Resistance to static load	otek Anbotek Anbo	N/A
, tek	Withstand the minimum static load	and otek anbotek Anb	N/A
Aup. sek	Comply with 4.13.1 of Part 1 after test	Ando stek anbotek A	N/A
13.6.2 (-)	Resistance to torque and shear loads	Anbo tek abotek	unbore P
13.6.2.1 (-)	Torque test 50 N 1 min.	Anbo. A. Abotek	AULDIE
K Vupo,	Comply with 4.13.1 of Part 1 after test	stek Anbors An	Pupo,
13.6.3 (-)	Resistance to thermal shock	abotek Anbore Air.	rel P AC
abotek	Resistance to thermal shock with iced water	abotek Anbote Ans	otek P
13.6.4 (-)	Edges And Take Andrew Andrew	botek Anbote. Ar	, P
hotek.	Accessible edges are rounded	hotek Anboten	Pup Bek
Aupole	Surface of top assembly is smooth and free from burrs, flashes and the like	tek Anbotek Anbotek	Anbot
13.6.5 (-)	Mechanical strength	abotek Anbor Ar.	el Pan
botek	Mechanical strength with impact energy of 5 Nm	botek Anbote Ans	Nek P

13.7 (11)	(11) CREEPAGE DISTANCES AND CLEARANCES		Anbo.
13.7 (11.2.1)	Impulse withstand category (Normal category II)	Category II Category III	_
-botek	Category III according Annex U	abotek Anbote. And	N/A
Anbotek	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1	Anbotek Anbotek Ano	N/A
13.7 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 13.7 (11.2) I	Anb P
rek anbo	Creepage distances for frequency over 30 kHz:	notek Anbotek Anbo	N/A
ibotek A	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 13.7 (11.2) II	N/A
Anbotek	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 13.7 (11.2) II	N/A
13.7 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 13.7 (11.2) I	Anbotek Anbotek
lek Vupo	Clearances distances for frequency over 30 kHz:	potek Anbo. Lek abotek	N/A
potek Ar	- Controlgear marked with UP	See Test Table 13.7 (11.2) II	N/A







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Anbo	IEC 605	598-2-13	nboro
Clause	Requirement + Test	Result - Remark	Verdict
pořek An	- Requirements according IEC 60664-4 fo controlgear not covered by IEC 61347	See Test Table 13.7 (11.2) II	N/A

13.8 (7)	PROVISION FOR EARTHING	nbot P
13.8 (7.2.1 + 7.2.3)	Accessible metal parts	And Piek
N. Air.	Metal parts in contact with supporting surface	P
Os VII.	Resistance < 0,5 Ω : 0.013Ω	P Ani
Aupote. K	Self-tapping screws used	N/A
Anbore	Thread-forming screws	nabolek P
Anboren	Thread-forming screw used in a grove	N/A
Anbore Anbore	Protective earth makes contact first	Phote
otek Anb	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V	N/A
nborek	Protective earthing of the luminaire not via built-in control gear	N/A
13.8 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.	N/A
13.8 (7.2.4)	Locking of clamping means	N/A
Her Vup.	Compliance with 4.7.3	N/A
13.8 (7.2.5)	Protective earth terminal integral part of connector socket	N/A
13.8 (7.2.6)	Protective earth terminal adjacent to mains terminals	N/A
13.8 (7.2.7)	Electrolytic corrosion of the protective earth terminal	N/A
13.8 (7.2.8)	Material of protective earth terminal	N/A
er Ano	Contact surface bare metal	N/A
13.8 (7.2.10)	Class II luminaire for looping-in	N/A
VII.	Double or reinforced insulation to functional earth	N/A
13.8 (7.2.11)	Protective earthing core coloured green-yellow	Anborek Anborek
3K Aupo	Length of protective earthing conductor	Rabot
13.8 (7.2.12)	PELV circuit connected to protective earth for functional purpose	N/A







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750	Vo. VOA	1 age 22 of or	rtoport rto.	102 10000	012101
Anbo	ak abotek Anbote	IEC 60598-2-13	Aupo	aborek	Anboro
Clause	Requirement + Test	And otek Anborek	Result - Remark	w.	Verdict

13.9 (14)	SCREW TERMINALS		nbotP
Anbotek	Separately approved; component list	(see Annex 1)	an Brek
tek Aupo	Part of the luminaire	(see Annex 3)	N/A

13.9 (15)	SCREWLESS TERMINALS AND ELECTRICAL CONNECTIONS		
Anbo	Separately approved; component list:	(see Annex 1)	N/A
Anbo	Part of the luminaire:	(see Annex 4)	N/A

13.10 (5)	EXTERNAL AND INTERNAL WIRING		N/A
13.10 (5.2)	Supply connection and external wiring	ibotek Anbor An hotek	PAnbo
13.10 (5.2.1)	Means of connection:	Supply cord	rek P A
Anbotek Anbotek Anbote	Outdoor luminaire has not PVC insulated external wiring if not Class III or SELV/PELV circuits ≤ 25 V AC/60 V DC/25 V peak interrupted DC voltage with frequency 10Hz -200 Hz or protected from outdoor environment	ek Anbotek Anbotek Arbotek botek Anbotek Anbotek	N/A
13.10 (5.2.2)	Type of cable:	3*1.0mm ²	ek P M
Anbo.	Nominal cross-sectional area (mm²):	1.0mm ²	P
Anbor	Cables equal to IEC 60227 or IEC 60245	Anbore ak hotek	Anboten
13.10 (5.2.3)	Type of attachment, X, Y or Z	type Y	Ar Poten
13.10 (5.2.5)	Type Z not connected to screws	Anbotek Anbotek Anbot	N/A
13.10 (5.2.6)	Cable entries:	Anbotek Anbotek Ant	N/A
Ar. hotek	- suitable for introduction	k botek Anbote	N/A
ok No.	- adequate degree of protection	ak hotek Anboten	N/A
13.10 (5.2.7)	Cable entries through rigid material have rounded edges	ons Anbotek Anbotek	N/A







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
ak Aupo	TK Potek Bupotes, Vun	Potek Pupo, by Potek	drag
13.10 (5.2.8)	Insulating bushings:	Anbotek Anbotek Anbot	N/A
Anbore	- suitably fixed	Anbore Ant work Anh	N/A
Anboten	- material in bushings	Anbores And orek	N/A
Anboten	- material not likely to deteriorate	k Anboten Anbotek	N/A
k Aupo	- tubes or guards made of insulating material	otek Anbotek Anbo	N/A
13.10 (5.2.9)	Locking of screwed bushings	nbotek Anbotek Anbote	N/A
13.10 (5.2.10)	Cord anchorage:	Anbotek Anbotek Anb	o ^{tek} P
abotek	- covering protected from abrasion	- abotek Anbore	Brek
- both	- clear how to be effective	rek spotek Aupote	P
ok h	- no mechanical or thermal stress	ok botek Anbote	P
re bu	- no tying of cables into knots etc.	both Andorek Anbores	P
bolo	- insulating material or lining	Anbore Anbrew Anbre	P
13.10 (5.2.10.1)	Cord anchorage for type X attachment:	Anbotek Anbotek A	N/A
-pote	a) at least one part fixed	ek abotek Anboton	N/A
ok -10	b) types of cable	ok hotek Anbotes	N/A
r. Bur	c) no damaging of the cable	bore An hotek Anboter	N/A
pota l	d) whole cable can be mounted	Anboise Anbo	N/A
Anboron	e) no touching of clamping screws	Auporen Ann Joseph Ar	N/A
Anbore	f) metal screw not directly on cable	Anbores Anb	N/A
Anbote	g) replacement without special tool	ek Anbotes Anbo	N/A
anb	Glands not used as anchorage	otek Anbotek Anbo	N/A
otek p	Labyrinth type anchorages	Lotek Anbotek Anbo	N/A
13.10 (5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	type Y	ootek P
13.10 (5.2.10.3)	Tests:	ek Anbotek Anbotek	Anbotek Anbotek
k - 2/20	- impossible to push cable; unsafe	rek upotek Vupojan	P
Pro-	- pull test: 25 times; pull (N):	60 Andrew Andrew	P
0. by	- torque test: torque (Nm):	0.25	Р







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdic
ik Aupo	lak polisk Pupoles Pun	Utek Vupo, W. Posek	pno
otek pr	- displacement ≤ 2 mm	1.15mm	P
notek	- no movement of conductors	An Anbotek Anbotek Anbo	P P
ine wek	- no damage of cable or cord	And Anhotek Anh	P
Aupr Pek	- function independent of electrical connection	Anbo sek abotek	N/A
13.10 (5.2.10.4)	Luminaire with/designed for use with supply cord with	maximum current of 2A:	N/A
otek An	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC	nbotek Anbotek Anbote	N/A
upo, aupotek	- Ordinary Class III luminaire supplied with PELV ≤12V RMS/30V DC	Anbotek Anbotek Anb	N/A
Anbotek	- Other than ordinary Class III luminaire supplied with voltage ≤12V RMS/30V DC	Anbotek Anbotek	N/A
	Pull test of 30N	Ne Ann Lotek Anbotek	N/A
13.10 (5.2.11)	External wiring passing into luminaire	abotek Anbotek Anbotek	P M
13.10 (5.2.12)	Looping-in terminals	Anbotek Anbotek Anb	N/A
13.10 (5.2.13)	Wire ends not tinned	ek Anbotek Anbotek	N/A
	Wire ends tinned: no cold flow	sofek Anbotek Anbo	N/A
13.10 5.2.14)	Mains plug same protection	Anbotek Anbotek Anbo	N/A
Anboren	Class III luminaire plug	Aupores Aug	N/A
Anbotek	No unsafe compatibility	Aupores, Wupo, Wek	N/A
13.10 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)	ek Anbotek Anbotek	N/A
13.10 (5.2.16)	Appliance inlets (IEC 60320)	Anbotek Anbotek Anbotek	N/A
nbotek	Installation couplers (IEC 61535)	Anborek Anbors Ans	N/A
abotek	Appliance inlet or connector systems (IEC 61984)	upotek Aupon Au	N/A
13.10 5.2.17)	No standardized interconnecting cables properly assembled	k Anbotek Anbotek	N/A
13.10 5.2.18)	Used plug in accordance with	ortek Anbotek Anbotek	N/A







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Anbo	IEC 605	98-2-13	Anboro
Clause	Requirement + Test	Result - Remark	Verdict
ak Anl	por An tek photen Anti-	y nek Anbor Ar	tok abol
otek	- IEC 60083	ofer Any otek Anbotek A	N/A
	- other standard	upotek upotek	N/A

13.10 (5.3)	Internal wiring	Anti	unboy P
13.10 (5.3.1)	Internal wiring of suitable size and type	otek Anbotek Anbotek	N/A
otek an	Through wiring	Lotek Anbotek Anbo	N/A
nek.	- not delivered/ mounting instruction	int otek anbotek Anbo,	N/A
and arek	- factory assembled	And otek Anbotek Anb	N/A
Anbo	- socket outlet loaded (A):	Anbo tek anbotek	N/A
Aupo	- temperatures	(see Annex 2)	N/A
Anbo.	Green-yellow for protective earth only	tek Aupo, ek apotek	Rhot
13.10 (5.3.1.1)	Internal wiring connected directly to fixed wiring	nbotek Anbotek Anbotek	N/A
nek	Cross-sectional area (mm²):	Anti otek Anbotek Anbe	N/A
Anbu	Insulation thickness (mm):	Anbotek Anbotek A	N/A
Anbo	Extra insulation added where necessary	Anbo tek nbotek	N/A
13.10 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	rrent-limiting device	N/A
Lotek D	Cross-sectional area (mm²)	motek Anbotek Anbo	N/A
13.10 (5.3.1.3)	Double or reinforced insulation for class II	Anbotek Anbotek Anbo	N/A
13.10 (5.3.1.4)	Conductors without insulation	ak Anbotek Anbotek	N/A
13.10 (5.3.1.5)	SELV/PELV current-carrying parts	potek Anbotek Anbotek	N/A
13.10 (5.3.1.6)	Insulation thickness other than PVC or rubber	Anbotek Anbotek Anbot	N/A
13.10 (5.3.2)	Sharp edges etc.	Anbotek Anbotek An	N/A
Anbors	No moving parts of switches etc.	k Aupor Aur Potek	N/A
sk Aupo,	Joints, raising/lowering devices	otek Aupote, Aug	N/A
			1000







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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
oupo	Art above And	otek Anbor An	dos
otek nr	No twisting over 360°	otek Anbotek Anbo	N/A
13.10 (5.3.3)	Insulating bushings:		N/A
Anborer	- suitable fixed	Anbotes And atek	N/A
Anbotek	- material in bushings	Aupoter Aupo	N/A
k Anbor	- material not likely to deteriorate	rek Anbotek Anbo	N/A
otek an	- cables with protective sheath	otek Anbotek Anbo	N/A
13.10 (5.3.4)	Joints and junctions effectively insulated	Anbotek Anbotek Anbo	N/A
13.10 (5.3.5)	Strain on internal wiring	Anbotek Anbotek A	N/A
13.10 (5.3.6)	Wire carriers		N/A
13.10 (5.3.7)	Wire ends not tinned	hotek Anbotek Anbotek	N/A
no tek	Wire ends tinned: no cold flow	Anboten Anb	N/A
13.10 (5.4)	Test to determine suitability of conductors having a area	a reduced cross-sectional	N/A
ek Anbore	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
*ek	No damage to luminaire wiring after test	otek nbotek Anbote	N/A
13.10 (-)	Cable for outdoor use provided by the luminaire manufac	cturer equal to:	N/A
Aupor	- 60245 IEC 57 or 60245 IEC 66	Anbor Ar. botek Ar	N/A
Anbore	- other rubber sheathed cables 450/750V according to regional Wiring Rules	Anbotek Anbotek	N/A

13.11 (8)	3.11 (8) PROTECTION AGAINST ELECTRIC SHOCK	
13.11 (8.2.1)	Live parts not accessible	otek P An
Anbotek	Basic insulated parts not used on the outer surface without appropriate protection	Anbo'Pk
ek Aup	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	Anboh Anboh







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Ville	IEC 60598-2-13	Arr tek abotek	AUD
Clause	Requirement + Test	Result - Remark	Verdic
otek k	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Anbotek Anbotek Anbots	N P
Anbotek	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements	Anbotek Anbotek An	N/A
Anbe Anb	Basic insulation only accessible under lamp or starter replacement	otek Anbotek Anbotek	N/A
otek p	Protection in any position	hotek Anbotek Anb	P
notek	Double-ended tungsten filament lamp	hotek Anbotek Anbo	N/A
,no work	Insulation lacquer not reliable	And Motek Anbotek Ant	N/A
Ans	Double-ended high-pressure discharge lamp	Anti otek Anbotek	N/A
Anbo	Relevant warning according to 3.2.18 fitted to the luminaire	tek Anbotek Anbotek	N/A
13.11 (8.2.2)	Portable luminaire adjusted in most unfavourable position	abotek Anbotek Anbote	N/A
13.11 (8.2.3.a)	Class II luminaire:	Anbotek Anbotek Anb	N/A
Anbotek	- basic insulated metal parts not accessible	Anbotek Anbo	N/A
	- required insulation from live parts in compliance with Table X.1	lek Anbotek Anbotek	N/A
potek Ar	- glass protective shields not used as supplementary insulation	bole Antotek Anbotek	N/A
13.11 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth	Anbotek Anbotek An	N/A
13.11 (8.2.3.c)	SELV circuits with exposed current carrying parts:	anbotek Anbotek	N/A
ak An	Ordinary luminaire:	notek Anbotek Anbo	N/A
otek	- voltage under load/ no-load AC (V):	hotek Anborek Anbo	N/A
Lotek	- voltage under load/ no-load DC (V)	Anbotek Anbotek Anbo	N/A
And	- interrupted DC voltage (V)	And otek Anbotek An	N/A
VUDO.	- touch current if applicable (mA):	Anbo tek anbotek	N/A
Anbo	One conductive part insulated if required	k Aupo, by	N/A
k Aug	Other than ordinary luminaire:	potek Anbour Amborek	N/A
otek	- voltage under load/ no-load AC (V):	hotek Anbor An	N/A







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And	IEC 60598-2-13	Anu tek nbotek	Aupo,
Clause	Requirement + Test	Result - Remark	Verdict
odny Anbo	Art aboter Arts	otek Aupon Burnek	des
otek n	- voltage under load/ no-load DC (V)	otek Anbotek Anbo	N/A
Nek.	- interrupted DC voltage (V)	ind otek Anbotek Anbo.	N/A
	Class III luminaire only for connection to SELV/PELV	Anbo tek anbotek Ant	N/A
Anbo	abotek Anbote Anbotek Anbotek	Anbo sek abotek	N/A
13.11 (8.2.3.d)	PELV circuits with exposed current carrying parts:	otek Anbotek Anbotek	N/A
otek an	Ordinary luminaire:	Lotek Anbotek Anbo.	N/A
orek.	- voltage under load/ no-load AC (V):	un stek aupotek Aupo.	N/A
inbu	- voltage under load/ no-load DC (V)	And tek anbotek Anb	N/A
Anbo	Other than ordinary luminaire:	Anbo tek nbotek A	N/A
Aupo	- voltage under load/ no-load AC (V):	Anbo kek abotek	N/A
Anbo.	- voltage under load/ no-load DC (V)	tek Aupo, by Ar.	N/A
itek Anl	One pole insulated if required	botek Anbor At hotek	N/A
13.11 (8.2.4)	Portable luminaire has protection independent of supporting surface	Anbotek Anbotek Anbo	,
13.11 (8.2.5)	Compliance with the standard test finger or relevant probe	Anbotek Anbotek Ar	N/A
13.11 (8.2.6)	Covers reliably secured	lek Anbotek Anbotek	N/A
13.11 (8.2.7)	Luminaire other than below with capacitor $> 0.5~\mu F$ not exceed 50 V 1 min after disconnection	Anbotek Anbotek Anbotek	N/A
Anbotek	Portable luminaire with capacitor > 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection	Anbotek Anbotek An	N/A
Anbotel Anbotel	Other luminaires with capacitor $>$ 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection	ek Anbotek Anbotek	N/A

13.12 (12)	ENDURANCE TEST AND THERMAL TEST	
13.12 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 13.13	
13.12 (12.2)	Selection of lamps and ballasts	_
ok a	Lamp used according Annex B (Lamp used see Annex 2)	_









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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
sk pup	K hotek Anbote And	otek Aupo, W. Potek	dr
otek A	Control gear if separate and not supplied	(Control gear used see Annex 2)	_
13.12 (12.3)	Endurance test	Anbotek Anbotek Ant	oter P
anbotek	a) mounting-position:	Normal installation	_
y anbo	b) test temperature (°C):	35°C	_
10/	c) total duration (h):	240h	_
Jak F	d) supply voltage (V):	264VAC	
Anbotek	d) if not equipped with control gear, constant voltage/current (V) or (A):	Anbotek Anbotek Anb	_
13.12 (12.3.1d)	d) Class III luminaires powered via information techno	logy communication cable:	N/A
Ann	- voltage under normal operation (V)	te And Lotek Anbotek	_
ye. Yu	- voltage under abnormal operation (V):	bose, Aur stek aupotes	_
hoter	e) luminaire ceases to operate	Anborer And atek Anbre	
Anbotek	f) luminaire with constant light output function	Ambotek Amb	N/A
13.12 (12.3.2)	After endurance test:	Anbotek Anbotek	Anb Pak
-K VIII.	- no part unserviceable	ak hotek Anbotek	PP
Y Arr	- luminaire not unsafe	bore Ann workek Anbotek	Phy
pore.	- no damage to track system	Anbote Ant otek Anbo	P
Anbore	- marking legible	Anbote, And otek	pote ^K P
Anboten	- no cracks, deformation etc.	Anboren And	naboP ^{JK}
13.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Anbore
13.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A
13.12 (12.6)	Thermal test (failed lamp control gear condition):	Anbotek Anbotek An	N/A
13.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)	k Anbotek Anbotek	_
20	131 VUID IN THE POLICE MAIN	ter and	

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- electronic lamp control gear





N/A

- case of abnormal conditions:



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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdic
k Pupe	he but apporter Ann	otek Anbor An	الم .
otek p	- measured winding temperature (°C): at 1,1 Un:	potek Anbore. And	_
unbotek	- measured mounting surface temperature (°C) at 1,1 Un	Anbotek Anbotek Anbo	N/A
Pupoter.	- calculated mounting surface temperature (°C):	Anbote, And Otek	N/A
Anboten	- track-mounted luminaires	Anboten Anbo	N/A
13.12 (12.6.2)	Temperature sensing control	otek Anbotek Anbotek	N/A
Pr. VI	- case of abnormal conditions:	upote All Potek Aupote	_
upote	- thermal link	Anbore And	N/A
Anbore	- manual reset cut-out	Anbore. And And	N/A
Anboten	- auto reset cut-out	Anbotes Anti-	N/A
Anbot	- measured mounting surface temperature (°C):	rek Anboten Anbo	N/A
rek an	- track-mounted luminaires	sofek Anbotek Anbo	N/A
13.12 (12.7)	Thermal test (failed lamp control gear in plastic lur	minaires):	N/A
13.12 (12.7.1)	Luminaire without temperature sensing control	Anbotek Anbotek A	N/A
13.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	tek Anbotek Anbotek	N/A
Ser Aug	Test method 12.7.1.1 or Annex W:	potek Anbo tek nbotek	_
potek	Test according to 12.7.1.1:	Anbotek Anbo sek abo	[™] N/A
anbotek	- case of abnormal conditions	Aupotek Aupo. W.	_
anbotek	- Ballast failure at supply voltage (V):	anbotek Anbo. Ak	_
abote	- Components retained in place after the test	ek nbotek Anbote	N/A
K ab	- Test with standard test finger after the test	tek abotek Anbote	N/A
ok k	Test according to Annex W:	bo. A. botek Anbote	N/A
10, b	- case of abnormal conditions:	Aupo, Aupotek Aupot	
Aupor	- measured winding temperature (°C): at 1,1 Un:	Anbor An hotek An	
Anbore	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	k Anbotek Anbotek	_
ik Anbo	- calculated temperature of fixing point/exposed part (°C)	otek Anbotek Anbotek	_
	()	Sign Color	







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Anbo	IEC 60598-2-13	Anbo sek abotek	Auporo
Clause	Requirement + Test	Result - Remark	Verdict
iek Anbo	Aug Poles Vision	otek Anbore Are	, aboth
13.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	N/A
Anbore	- case of abnormal conditions:	Anbore And otek An	_
Anbore	- measured winding temperature (°C): at 1,1 Un:	Anbores And otek	_
anboten abot	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Anbotek Anbotek	_
potek An	- calculated temperature of fixing point/exposed part (°C):	nbotek Anbotek Anboten	
Anbotek	Ball-pressure test:	See Test Table 13.15 (13.2.1)	N/A
13.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	Anbotek Anbotek	N/A
PUD.	- case of abnormal conditions:	And otek Anbotek	_
Anbo	- Components retained in place after the test	ter And stek Anbotek	N/A
otek Au	- Test with standard test finger after the test	ipotek Aupo tek upotel	N/A
13.12 (12.7.2)	Luminaire with temperature sensing control	Anbotek Anbotek Anb	N/A
And	- thermal link:	Yes No	
Vun Vie	- manual reset cut-out:	Yes No D	—
Anb	- auto reset cut-out:	Yes No	_
oter And	- case of abnormal conditions:	botek Anbotek	_
nbotek	- highest measured temperature of fixing point/ exposed part (°C)::	Anbotek Anbotek Anbo	_
Answork	Ball-pressure test: ::::::::::::::::::::::::::::::::	See Test Table 13.15 (13.2.1)	N/A
13.12 (-)	Temperatures of translucent covers and accessible metal parts not exceed rated maximum surface temperature <i>T</i>	ek Anbotek Anbotek	N/A
atek .	nbotek Anbor ak hotek Anboten Ar	otek anbotek Anbor	ok bu.
13.13 (9)	RESISTANCE TO DUST AND MOISTURE		P PI
13.13.1 (-)	If IP > IP 20 the order of tests as specified in clause 1.	3.12	P
13.13 (9.2)	Tests for ingress of dust, solid objects and moisture:	Anbo, ak abotek	Aupole.
Anbor	- classification according to IP:	IP66	_
ek anbo	- mounting position during test	Normal installation	_

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0.5



- fixing screws tightened; torque (Nm):



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	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
ek Anb	or And above And	otek Anbot Att tok	abo
atek a	- tests according to clauses:	Clause 9.2.2 and 9.2.7	
ateK .	- electric strength test afterwards	and otek anbotek Anbor	P
	a) no deposit in dust-proof luminaire	Anbo tek anbotek Ant	N/A
Pupo.	b) no talcum in dust-tight luminaire	Anbo kek abotek	inpose P
ik Anbo	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	otek Anbotek Anbotek	An Pres
otek Ar	c.1) For luminaires without drain holes – no water entry	nbotek Anbotek Anbote	P
inbotek	c.2) For luminaires with drain holes – no hazardous water entry	Anbotek Anbotek Anb	N/A
Anbotek Anbot	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire	rek Anbotek Anbotek	N/A
stek An	e) no contact with live parts (IP 2X)	botek Anbotel And	N/A
hotek	e) no entry into enclosure (IP 3X and IP 4X)	hotek Anbotek Anb	N/A
Anbotek	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	Anbotek Anbotek Anb	N/A
Anbore	f) no trace of water on part of lamp requiring protection from splashing water	ek Vupotek Vupotek	N/A
ek at	g) no damage of protective shield or glass envelope	stek supotek Aupon	P
13.13 (9.3)	Humidity test 48 h	Humidity 93%, temperature 25°C	ek PAM
13.13 (-)	Meet IP65 and IP67 requirements	IP66	oo ^{tek} P

13.14 (10)	4 (10) INSULATION RESISTANCE AND ELECTRIC STRENGTH	
13.14 (10.2.1)	Insulation resistance test	P Anbot
abotek p	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø:	_
aborek	Insulation resistance (M Ω):	P.
historial	SELV/PELV:	N/A
ok bi.	- between current-carrying parts of different polarity :	N/A
potek An	- between current-carrying parts and mounting surface:	N/A







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VU	IEC 60598-2-13	All sek abotek	Anbu
Clause	Requirement + Test	Result - Remark	Verdict
ak prol	po, W. Potek Pupote, Pun	otek Aupo, M. Motek	desd
otek	- between current-carrying parts and metal parts of the luminaire	unbotek Anbotek Anbot	N/A
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 Anh	N/A
Anba	- Insulation bushings as described in Section 5:	And stek Anbotek	N/A
Ant	Other than SELV/PELV:	otek Anbotek	B/p _c
stek l	- between live parts of different polarity:	>100MΩ	P
nbotek	- between live parts and mounting surface:	>100MΩ	ore ^K P
anbotek	- between live parts and metal parts:	>100ΜΩ	, noteP
Anbote	- between live parts of different polarity through action of a switch:	Anbotek Anbotek	N/A
tek b	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	>100ΜΩ	₽ Pr
po.	- Insulation bushings as described in Section 5:	Anbo. Anbotek Anbo	N/A
3.14 10.2.2)	Electric strength test	Anbotek Anbotek A	ibotek
nnbo	Dummy lamp	ek unpotek Aupo.	Pool
3K ~	Luminaires with ignitors after 24 h test	otek Anbotek Anbot	Р
rek	Luminaires with manual ignitors	otek anbotek Anbote	A P
, ek	Test voltage (V):	Anbo tek abotek Anbo	Р
Vupo.	SELV/PELV:	Anbo. Ak abotek Ar	N/A
Anbor	- between current-carrying parts of different polarity:	Aupor Ar botek	N/A
k Anbo	- between current-carrying parts and mounting surface:	otek Anbotek Anbotek	N/A
orek	- between current-carrying parts and metal parts of the luminaire:	Anbotek Anbotek Anbot	N/A
Aupotek Tupotek	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek An	N/A
Anbo	- Insulation bushings as described in Section 5 :	Anbu Hek abotek	N/A
PU,	Other than SELV/PELV:	potek Anbo. ek botek	Rup
stek.	- between live parts of different polarity:	1480V	⊮ P







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Anba	IEC 60598-2-13		
Clause	Requirement + Test	Result - Remark	Verdict
iek Anbo	All hoke above And	otek Anboy All tek	odoo
arek ar	- between live parts and mounting surface:	1480V	P
, bek	- between live parts and metal parts:	1480V	P
Anbotek	- between live parts of different polarity through action of a switch:	Anbotek Anbotek Ant	N/A
Anboren Anbor	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	1480V	Anbot
potek An	- Insulation bushings as described in Section 5 :	upotek Aupon M. apote	N/A
13.14 (10.3)	Touch current (mA):	Anbotek Anbotek Anb	N/A
Ann	Protective conductor current (mA)	0.15mA	nbo P

13.15 (13)	13.15 (13) RESISTANCE TO HEAT, FIRE AND TRACKING		PAnbo	
13.15 (13.2.1)	Ball-pressure test:	See Test Table 13.15 (13.2.1)	rek P A	
13.15 (13.3.1)	Needle-flame test (10 s):	See Test Table 13.15 (13.3.1)	hore P	
13.15 (13.3.2)	Glow-wire test (650°C)	See Test Table 13.15 (13.3.2)	Photek	
13.15 (13.4)	Proof tracking test (IEC 60112):	See Test Table 13.15 (13.4)	N/A	



Hotline



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Aupo	ak abotek Anbote	IEC 60598-2-13	Anbo tek nbotek	Anbore
Clause	Requirement + Test	Ann Anbore	Result - Remark	Verdict

D. Pri	EN IEC 60598_1 ATTACHMENT	ek anbore
Clause	Requirement + Test Result - Remark	Verdic
IEC 60598-1	N GROUP DIFFERENCES AND NATIONAL DIFFERENCES	Anbotek Anbotek
Differences	according to: EN IEC 60598-1: A11: 2022	
TRF templa	ate used: EN IEC 60598-1:2021 Ed. 1.1	Anb Anbotek
Attachment	t Form No: EU_GD_IEC 60598_1 t Originator: Anbotek achment: 2023-02-16	Anbotek Anbotek Anbotek Anbote Anbotek Anbote
Pun.	CENELEC COMMON MODIFICATIONS (EN)	K Anborok
4010	CONSTRUCTION	otek Anbatel P
4.11.6	Following completion of these test, add the following test: the test voltage however being reduced to 1500V	unbotek hibore
5 Anbo	EXTERNAL AND INTERNAL WIRING	abotek Plot
5.2.2	Replace "IEC 60227 (all parts) and IEC 60245 (all parts), by EN 50525 (all parts), and delete paragraph 2.	k Anbotek PA
inpoter.	Replace table 5.1 – by the following new table	tek hotep
12 Anbotek	ENDURANCE TESTS AND THERMAL TESTS	up Bek
12.4.2c	Thermal test (normal operation) see footnote c to table 12.2 relating to unsleeved fixed wiring	Anbotek Photos
otek An	In table 12.2 footnote add the following:	And Jok P
	-after European installation standards (HD 60364 all parts) and (HD 384 all parts) -after European cable standard (EN 50525 all parts)	tek Anbotek
-100,	Addition of Annex ZB, Special national conditions and Annex ZC	P







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Aupo	ak abotek Anbote	IEC 60598-2-13	Anbo tek nbotek	Aupolo.
Clause	Requirement + Test	Ann Anbore	Result - Remark	Verdict

	- o/c NO DI.	Op ak no	D.
Clause	Requirement + Test	Result - Remark	Verdict
	Denmark: supply cords of class I luminaires which are delivered without a plug, shall be provided with a visible tag with the following text	Anbotek Anbotek An	Anbotek
3.3	Vigtigt ! Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket	tek Anbotek Anbotek	Anb ^c
Aupotek A	eller —	Anbotek Anbotek An	otek Inbotek
5.2.18	Denmark	Anbote, Ant otek	N/A
ek Anbores	Socket-outlets intended for providing power to other appliances shall be in compliance with SD 60884-2-D1:2017	otek Anbotek Anbotek	N/A
5.2.1	Cyprus	abotek Anbore An	N/A
Anbotek Anbotek	Domestic luminaites intended for connection to a standard United Kingdom 13A socket must be prefitted with an approved plug complying with BS 1363	Anbotek Anbotek Anbotek	N/A
anbot Anbot	Cord sets for domestic luminaires for connection with an appliance inlet must be pre-fitted with an approved plug complying with BS 1363 Plug must be fitted with the correct fuse	Dotek Anbotek Anbotek	N/A
hotek	Denmark	Antotek Anbotek Anb	N/A
Anbotek	Supply cords on single-phase portable luminaires having a rated current not exceeding 13A	Anbotek Anbotek	N/A
k Aupore	For luminaires having an aooliance inlet, the plug on the supply cord shall comply with te above requirements	otek Anbotek Anbotek	N/A
nbotek Anbotek	If multi-phase luminaires and single-phase luminaires having a rated current exceeding 13A are provided with a supply cord with a plug, the plug shall comply with the following table or EN 60309.	Anbotek Anbotek Anbo	N/A
hotek	Finland	e hotek Anbor	N/A





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Anbor	k abotek Anbore	IEC 60598-2-13	abotek Anbote
Clause	Requirement + Test	Result - Remark	Verdict

otek ont	EN IEC 60598_1 ATTACHM	IENTER Anbotek Anbo	
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek Anbotek	For luminaires provided with non-detachable flexible calbles and cords and a plug, the plug shall comply with the requirements of SFS 5610 and EN 50075, the Standard sheets to be applied being as follows	Anbotek Anbotek Anbotek	N/A
Annex ZC	A-deviation: National deviation due to regulations, the alteration of which is for the time being outside the competence of the CEN-CENELEC national memner.	Anbotek Anbotek Anbotek	P A
Anboter	This European Standard falls under Directive 2014/35/EU	Anbotek Anbotek	anbotP ^k





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Auporg	Anborek Anborek	IEC 60598-2-13	Aupor P	abotek	Anboron
Clause	Requirement + Test	And niek Anborek	Result - Remark	h. shotek	Verdict

13.7 (11.2)	TABLE I: C	reepage dista	nces and clea	rances			P P		
anbotek	Minimum di	Minimum distances (mm) for a.c. up to 30 kHz sinusoidal voltages							
anbotek	Applicable	part of IEC 60	598-1 Table 1	1.1.A*, 11.1.B	s* and 11.2*	Aupor A	abol P		
anbotek	Insulation	Measured	Requ	uired	Measured	Requir	ed		
k whole	type **	clearance	clearance	*Table	creepage	creepage	*Table		
Distance 1:	otek B Ani	2.8	work 1.5 Ant	otek 11.1 Anbi	2.8	2.5	11.1		
Working volt	age (V)	Ropo _{te} , V	Un Viela	Motek A	230V	botek Anbo			
PTI	Pur Pur	unbotel.	Aup.	Mojek .	< 600 ⊠	<u>></u> 600 □	<i>'</i> o		
Pulse voltage	e or <i>U</i> ⊵ if app	licable (kV)	Vupo.	- Joseph	Aupore	Ann Motek			
Supplementa	ary information	n: Anbotek	Aupo,	k abotek	Anboien	k Pushek	Anboier		
Distance 2:	В	16 2.6 Mbo	1.5 Anbore	11.1	2.6	2.5	11.1,00		
Working volt	age (V)		potek Anb		horek Anb	Oter Anna	a) —		
PTI	obotek P	'Upp.	Toulek D	upor br	< 600 ⊠	<u>></u> 600 □	_		
Pulse voltage	e or <i>U</i> ⊵ if app	licable (kV)	to tek	Wpole.	pro potek	Anbotek An	_		
Supplementa	ary information	n: Anbor	aborek.	Aupoien	And	Anbotek	Vup.		
Distance 3:	Babote	4.2	1.5 500	11.1	4.2	2.5	11.1		
Norking volt	age (V)	iek Aupo	P0.	tek nabot	V. Vilon	tek abotek			
PTI		totek Arl	DOL. NO.		< 600 ⊠	≥ 600 □	<u></u>		
Pulse voltage	e or <i>U</i> ⊵ if app	licable (kV)	Anboron A	ek	Aupotek A	upo, bi.	, —		
Supplementa	ary information	P.C.	Anboien	Anbotek	Anbotek	Anbotek Anbotek	Anbotek Anbotek		
	etween for + etween for liv	and - of LED o	100						

^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced. See also IEC 60598-1 Annex M.

13.7 (11.2)	TABLE II: C	reepage dis	stances and cl	learances			N/A
Ar. Polek	Minimur	n distances	(mm) for a.c.	higher than 3	0 kHz sinusoid	dal voltages	And
Aur Potsk	Applicab	le part of IE	C 61347-1 Tab	le 7 and 8* or	IEC 60664-4 T	able 1 and 2	Yupo.
Distances	Insulation	Measured	Requ	Required		Required	
	type ** clearance	clearance	*Table	creepage	creepage	*Table	
Distance 1:	ok r	botek	Anbore P	in otek	Anbotek Ar	ipo rek	abotek Ar







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Aupo, ok	abotek Anboron	IEC 60598-2-13	ak Anb	DOIT NO. 1025	otek	Aupoten
Clause	Requirement + Test	And stek Ant	Result -	- Remark	botek	Verdict
lek Aupo	Ar. aboter	And	Loiek	Aupo,	No.	- Abote
Working volt	age (V)	ok potes	Andrek	Anbotek	Anbo.	_
Frequency if	applicable (kHz)	Map o Jee	And			_
	Annotek Anboli Ar		: < 600	<u>≥</u> 600 □	Pul	_
Peak value of	of the working voltage $\hat{\sf U}_{\sf out}$ if ap	plicable (kV)	YUD.	stek oup	otek	
Supplementa	ary information:	Ans hotek Ant	Ofek b	upo tek	abotek	Anboro
Distance 2:	tek Arbotek Arbote	Ame wotek	Intolek	Anbo	abotek	Aupole
	age (V)			Anbo	A. bote	_
Frequency if	applicable (kHz)	notes And	Anbotek	Anbor	P11.	_
PTI	Anbore Air	Anhotek Anho	: < 600	<u>≥</u> 600 □	Di.	
Peak value of	of the working voltage $\hat{\sf U}_{\sf out}$ if ap	plicable (kV)	- de	hotek Anbo	de b	
Supplementa	ary information:	Aupotek Aup.	rek r	aborek A	horody	Anshotek
Distance 3:	otek Anbote, An	ik Albotek A	nb ³ .	A. aborek	Aupole.	Aur
Working volt	age (V)	niek Anuatek	bupor rok	Ai.	Aupote	_
Frequency if	applicable (kHz)	otek Napotek	Aupor	ok hotek	Anbo	_
PTI	All Motor	in a state of the	: < 600	<u>≥</u> 600 □	ek A	<u> </u>
Peak value of	of the working voltage \hat{U}_{out} if ap	plicable (kV)	rel An	Pos Vin	notek	
Supplementa	ary information:	Anbo	botek	Anbore Ar	Lotek	Anbotek



^{**} Insulation type: B – Basic; S – Supplementary; R – Reinforced.



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Anbo	k nbotek Anbote	IEC 60598-2-13	Ando tek nbotek	Anbore
Clause	Requirement + Test		Result - Remark	Verdict

13.15 (13.2.1)	TABLE: Ball Pr	essure Test of Thermo	pplastics	Anbo hotek Ankotek P
Allowed in	npression diamete	er (mm):	2 anbotek Anbot	ok hotek
Object/ Par	rt No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
LED driver	cover	See the annex 1	125	1.35
PCB	hotek Anbo	See the annex 1	125	0.78
LED cover	bur.	See the annex 1	125	1.14

13.15 (13.3.1) TABLE	E: Needle-flame test			tek Anbotek	PAnb
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
LED driver cover	See the annex 1	ntek 0 nnbotek	No	0	Pass
Pupou	-otek Anbotek	rupo rek upot	k Popor	Pur-	Arbote!
Hok Aupora	- Josek Anborek	Pupp.	otek Anbore	r bu	-anbo
Supplementary infor	mation:	k hotek	Anbotek Anbot	*ek Vuo	ek N

Object/	Manufacturer/		GWT (°C): 650			
Part No./ Material	trademark	t _E (s)	t _i (s)	t _R (s)	Verdict	
LED driver cover	See the annex 1	0%	Anboto"	Aupr O'k	Pass	
PCB	See the annex 1	Ame O stek	0	Anbo	Pass	
LED cover	See the annex 1	0	0 botek	P0000	Pass	
gnition of the specified la	yer placed underneath the te	st specimen (Yes/No)	k Vupoje	Yes	







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Anbore	k abotek Anbotek	IEC 60598-2-13	Anber tek abotek	Anboren
Clause	Requirement + Test	And otek Anbotel	Result - Remark	Verdict

13.15 (13.4)	TABLE: Proof tra	acking test				N/A
Test volta	ge PTI	:	175 V	Anbors	Pur Polek	_
Object/ Part No./ Material Manufacturer/ trademark		Withstand 50 drops without failure on three places or on three specimens			Verdict	
- ok	-botek Anbote	- Ann stek	hotek Aupo	- N. 100	rek- Anbore	Pur
201 ok	Anbote Anbote	Aug	nbotek Ar	120 Bus	borek Anbore	- VU,
Kapole.	Ann Josek Anb	otek Pupp	- abotek	Vepoles N	-otek Anb	- Asto
Suppleme	ntary information:	abotek Anbo.	hotek	Anbore	Vun Jek	abotek





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Aupo	k nbotek Anbote	IEC 60598-2-13	Ando	abotek	Anbore.
Clause	Requirement + Test	Ann otek Anbor	Result - Remark	who tek	Verdict

ANNEX 1	TABLE: Critical components information								
Object / part No.	Code Manufacturer/ trademark		Type / model Technical data		Standard	Mark(s) of conformity ¹			
Supply cord	Anboteh B Anbo	HAN LI ELECTRICAL WIRE PRODUCTION CO.,LTD.	H05VV-F	3G1.0mm ²	VDE 0282	VDE 40021389			
LED driver	B otek	EAGLCRISE	SC-15-350 SB	Input: 220- 240VAC, 50/60Hz, 0.22A, ta:60°C, tc:90°C Output: 28- 42VDC, 14.7W	EN 61347-1 EN 61347-2-13	CE, nbotek			
LED Cover	B AN	Various	Various	V-0, 110°C	UL 94	UL			
LED PCB	B	KINGBOARD LAMINATES HOLDINGS LTD	KB-2150	V-0, 130°C, FR-2	UL 796	UL E123995			
LED Anhorek	Botek	MSL CO.,LTD.	1672	VF-3~3.3V IF- 60mA	EN 60598-1 EN 60598-2-13	Tested with appliance			

Supplementary information:

8) Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- Integrated component tested together with the appliance
- D Alternative component



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Anbo	k nbotek Anbote	IEC 60598-2-13	Ando tek nbotek	Anboro
Clause	Requirement + Test		Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12		P Anb
Aupo.	Type reference ::	6012-15W	_
Aupo.	Lamp used:	LED horozak	_
Aupor	Lamp control gear used:	LED driver	_
sk Wpo,	Mounting position of luminaire:	Normally mounted	_
ootek An	Supply wattage (W):	14.8	_
abotek	Supply current (A):	0.112	_
abotek	Power factor:	0.575	
Anbotek	Temperatures in test 1 – 4 below are corrected for ta (°C):	25	_
k Aupon	- abnormal operating mode:	ctek Anbour An botek	_
1.12 (12.4)	- test 1: rated voltage:	hotek Anbor Anborek	_
inbotek l	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	240V*1.06=254.4VAC	_
Anbotek	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	Anbotek Anbotek Ar	_
Anbote	Through wiring or looping-in wiring loaded by a current of A during the test:	orek Anbotek Anbotek	_
1.12 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	rbotek Anbotek Anbotek	_

Temperature measurements (°C)

			CI. 12.4		Cl. 12.5 – abnormal		
Part	Ambient	test 1	test 2	test 3	limit	test 4	limit
Supply cord	25	Anbote	32.5	1/94	75	Aupor	bu.
Internal wire	25	dna - Ne	37.8	Vpo.	105	Pupose.	- Nun
Tc for LED driver	25	Nek-	78.3	Aupon K	90	ak Anbo	- M
PCB	25	107	53.1	Vopo.	130	otek Ar	poter
LED PCB	25	AUDO - FOR	57.4	-Aupor	130	hotek-	Anboten
LED Anbore And Lotek	25	Vupo.	63.0	BEK BULL	Ref.	Pur Olek	Antorek
LED cover	25	Pupo.	42.8	ootek	Ref.	Ans otek	fodna-
Mounting surface	25	K - Aup	26.4	holok	Ref.	VUD.	ek - 46







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401	2000	- Va	raye 44 UI	or Report No.	024030300	712701
Anbo	ek abotek	Anbore	IEC 60598-2-13	Anbo	abotek	Aupor
Clause	Requirement -	+ Test	Ant otek anbot	Result - Remark	P. Polek	Verdict
ya Ya	DOL BU	V Loter	and	tok above	bu.	100

١.	12/2	20 600			(-O)	12/4	24.60	
	Supplementary informati	ion:	ber.	 vote.	AUG	- Jok	Upo.	been
	Supplementary informati	IOI I.						



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Vupo.	ek nbotek Anbore	IEC 60598-2-13	Ando	abotek	Anboro
Clause	Requirement + Test	And otek Anbore	Result - Remark	h. abotek	Verdict

ANNEX 3	Screw terminals (part of the luminaire)	N/A
(14)	SCREW TERMINALS	N/A
(14.2)	Type of terminal:	_
N W	Rated current (A):	_
(14.3.2.1)	One or more conductors	N/A
(14.3.2.2)	Special preparation	N/A
(14.3.2.3)	Terminal size	N/A
anbotek	Cross-sectional area (mm²):	_
(14.3.3)	Conductor space (mm):	N/A
(14.4)	Mechanical tests	N/A
(14.4.1)	Minimum distance	N/A
(14.4.2)	Cannot slip out	N/A
(14.4.3)	Special preparation	N/A
(14.4.4)	Nominal diameter of thread (metric ISO thread): M	N/A
Anbore	External wiring	N/A
Anbore	No soft metal	N/A
(14.4.5)	Corrosion	N/A
(14.4.6)	Nominal diameter of thread (mm):	N/A
in stek	Torque (Nm)	N/A
(14.4.7)	Between metal surfaces	N/A
Anbo	Lug terminal	N/A
Anbor	Mantle terminal	N/A
lek Aupo	Pull test; pull (N)	N/A
(14.4.8)	Without undue damage	N/A



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Anbo	ak abotek Anbote	IEC 60598-2-13	Ando	boiek An	00/0
Clause	Requirement + Test	Ann otek Anbote	Result - Remark	potek	/erdict

ANNEX 4	Screwless terminals (part of the luminaire)	N/A
(15)	SCREWLESS TERMINALS	N/A
(15.2)	Type of terminal:	_
VUD	Rated current (A):	_
(15.3.1)	Material	N/A
(15.3.2)	Clamping	N/A
(15.3.3)	Stop	N/A
(15.3.4)	Unprepared conductors	N/A
(15.3.5)	Pressure on insulating material	N/A
(15.3.6)	Clear connection method	N/A
(15.3.7)	Clamping independently	N/A
(15.3.8)	Fixed in position	N/A
(15.3.10)	Conductor size	N/A
Anbores	Type of conductor	N/A
(15.5)	Terminals and connections for internal wiring	N/A
(15.5.1)	Mechanical tests	N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	N/A
, rek	Insertion force not exceeding 50 N	N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)	N/A
(15.5.2)	Electrical tests	N/A
Anbore	Voltage drop (Mv) after 1 h (4 samples):	N/A
sk Aupo	Voltage drop of two inseparable joints	N/A
otek A	Number of cycles:	_
Anbotek	Voltage drop (Mv) after 10 th alt. 25 th cycle (4 samples):	N/A
Anborek	Voltage drop (Mv) after 50 th alt. 100 th cycle (4 samples):	N/A
k Aupo	After ageing, voltage drop (Mv) after 10 th alt. 25 th cycle (4 samples):	N/A
lotek bu	After ageing, voltage drop (Mv) after 50 th alt. 100 th cycle (4 samples):	N/A







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All		potek	Aupo	V.	IEC 6059	98-2-13		Yu.	100	otek	Aupo
Clause	Requir	ement + Te	est _{kn} bolik	, P	no work	dna	Resu	ılt - Rema	ark	spotek	Verdic
ak Anbo	- 0/-	P. Potek	dend	ofer	AUL	e¥.	niotek.	Anbo	- V	P. Potek	drag
(15.6)	1.0	nals and co	onnection	s for exte	ernal wiri	ng	abote	4 20	porc	PLI.	N/A
(15.6.1)	Condu	ctors	- Jek	Motek	D.C.	por	bris.	otek	Pupoten	Aup	N/A
And	Termin	nal size and	d rating	h.,	rek	Anbore	VUL	-del-	nobote .	k Mul	N/A
15.6.2	Mecha	nical tests	Anboro	bu.	Maron	Anboier	P	'upo	/0	otek	N/A
(15.6.2.1)		st spring-ty ples); pull					stek.	Anbo.	ek k	inpotek	N/A
(15.6.2.2)		st pin or tal				Sh. V.	nbotel	An	potek	Anbore	N/A
(15.6.3)	40,	cal tests	notek	Anborek	Pu	rek	anbo	tek	Aupon	Present	N/A
botek	Tests a	according	15.6.3.1 +	+ 15.6.3.2	2 in IEC	60598-1	Par	botek	Anbore	brug.	N/A
notek	امم	3070	Aug		potek	Aupo	4	-botek	Mah	Die. b	,no
(15.6.3.1) (15.6.3.2)	TABLI	FABLE: Contact resistance test / Heating tests									N/A
stek Anb	Voltag	e drop (Mv) after 1 l	Jootek	Vupo.	hotek	Anh	ole.	Aug	_	
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(Mv)	Ant	. No.	hot	1 ×	'upo,	bu.	rek	Vupoter.	VUD.	- 0/-
Aupo	19	√oltage dro	op of two	insepara	ble joints	Anborne	120	No.	1000	tek A	10010
Anbo	F 57	Voltage dro	op after 1	0 th alt. 25	5 th cycle	Anbor	er-	Vupo.	(- po	botek	Aupore
Anbore	-	Max. allowe	0	10/	PLD.	·	potek	Anbore	- N	hotek	_
terminal	300	1	2	3	4	5	6	7	8	9	10
voltage drop	(My)	· ·	16K	vupote.	Pilin	- 240	-hot	er p	Upo	W	ek
totek	1-010	√oltage dro	op after 5	0 th alt. 10)0 th cycle	UPOLO	PU.	otek	Aupotek	Pupo	xeV.
And		Max. allowe	400	P	101	10010	104	otek	anbot	ek Pi	⁰ 0,
terminal	(r.	1	2	3	4	5	6	7	8	9	10
voltage drop	(My)	abore	Arr	V.	L-ofek	anl	90	Pr.	ek	apore	bu.
voltage alop		 Continued :	adeing. A	oltage dr	on after	10 th alt 2	5th cycle	prob00	You	who tek	PU
potek Ar	100	Max. allowed	A44	2010	VOS		.o cycli	Nr.	hore	Arr	
terminal	hore	1	2	3	4	5	6	7	8	9	10
voltage drop	(1)(1)	1	Z	3 \(\alpha\b)	4	3	4	hole	0	9	10
voltage drop	` ,	2 ontinue 1	Vupo.	olto ac1	WOOTE -	FOth alt 1	OOth	No rotek	ant	otek	Vupo.
Anbe	10	Continued	40.4	17	Nor	100	oo" cyc	He Wor	ek	nbotek	vupo ₁₀
	Max. allowed voltage drop (Mv):										_
Vu	terminal 1 2		3	4	5	6	7	8	9	10	







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Vupo.	ek bu	botek	Anbore	r. Du	IEC 60598-2-	13	Aup	*ek	obotek	Aupolo
Clause	Requir	ement +	Test 🚧	ole.	Aug Stek	nbot	Result -	Remark	hotek	Verdict
ek an	00,-	bu.	14	aboten	MUDO		-oiek	Pupo,	bu.	200
rek	nbotek	Aupo,	-V-	hotek	Anboile	10	tek	apotek	Aupo,	Nr.
Suppleme	ntary infor	mation:	0,0	Die.	k vupotek		Anbo	hotek	Anbo	in bi
Anboren	And									





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Anboro	. abotek	Aupolog	Die	C 62031	Ant	abotek	Anbolo
Clause	Requirement + T	est whome	bles.	itek Anbotek	Result - Remark	abotek	Verdict

Attachment 1: EN IEC 62031:2020+A11:2021

4	GENERAL REQUIREMENTS		Net-
4.2	Classification	botek Anbore An	_
bu.	Built-in module:	Yes □ No ⊠	
k Br.	Independent module:	Yes □ No ⊠	
A. A.	Integral module:	Yes ⊠ No □	
4.6	Independent modules comply with requirements in IEC 60598-1:2014/AMD1:2017	upotek Anbotek Anbote	P An
4.8 Anborek	Modules with integrated controlgear providing SELV comply with requirements according to IEC 61347-1:2015/AMD1:2017 clause L.5 to L.11.	(see Annex 1)	nboteP notek

5	GENERAL TEST REQUIREMENTS		Panbo
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	ek P
Anbore	General conditions for tests in Annex A	(see Annex A)	N/A

6	MARKING		Pupose.		
6.2	Contents of marking for built-in and for independent LED modules				
aborek	a) mark of origin	anbotek Anbot Anbote And	e ^K P N		
abotek	b) model number, type reference	6012-15W	-oteVP		
Anbotek	c1) constant voltage module; rated supply voltage and supply frequency	Anbotek Anbotek An	Aupoi8k		
rek Anbo	c2) constant current module; rated supply current and supply frequency	okek Anbotek Anbotek	N/A		
*ok	d) rated power	tek abotek Anbore	P		
Upo.	e) indication of connections, wiring diagram	Anbor Anborr	P		
Anbow	f) value of $t_{\rm C}$ and place on the module	Anbor Ant abotek Ant	N/A		
Anbore	g) Ethr if required	Anboro All botek	N/A		
Aupo	h) symbol for built-in modules	k Aupon Ak Polek	An Pries		
lek Aul	i) heat transfer temperature $t_{ m d}$	otek Aupore Aug	N/A		
potek	j) power for heat-conduction P _d	hotek Anbores Anb	N/A		





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	IEC 62031		
Clause	Requirement + Test	Result - Remark	Verdict
ok Aut	o. W. tek wholes me	Lotek Anbot An tek	anbo
otek	k) working voltage for insulation	Lotek Anbotek Anbo	Р
6.3	Location of marking for built-in LED modules	And otek Anbotek Anbo	P
Aups Helk	- marking of a) and b) in 6.2 on the modules	And tek Anbotek An	P
Anbore	- marking of other applicable items in 6.2 on the modules or in data sheet, leaflet or website	anbotek Anbotek	N/A
6.4	Location of marking for independent LED modules	Stek anbotek Anbo.	N/A
*ek	- marking of a), b), c) and f) in 6.2 on the modules	stek anbotek Anbot	N/A
nbotek	- marking of other applicable items in 6.2 on the modules or in data sheet, leaflet or website	Anbotek Anbotek Anbot	N/A
6.5	Marking of integral LED modules	anbotek Anbo. Ak	hote P
Anbotel	- information in 6.2 a) to g) in data sheet, leaflet or website	Anborek Anborek	Anborek Anborek
6.6 And	Durable and legibility of marking	otek Anbo sek shotek	b E ipos,
tek A	- marking on the LED module legible after test with water	botek Anbotek Anbote	PAnt
1/Do	- marking not on the LED module legible	And ok botek And	P

7	TERMINALS		abotek
7.1	Integral terminals	otek Anbotek Anb	N/A
yek.	Screw terminals comply with section 14 of IEC 60598-1	(see Annex 3)	N/A
nbotek	Screwless terminals comply with section 15 of IEC 60598-1	(see Annex 4)	N/A
7.2	Terminals other than integral terminals	Ambotek Anbotek An	N/A
Ans	Separately approved; component list	(see Annex 2)	N/A
PUL	Ratings suit the conditions	Aup. Fek upotek	N/A
iek l	Satisfy additional relevant requirements of this standard	hotek Anbotek Anbotek	N/A

8 (9)	EARTHING	MOTOV
- (9.1)	Provisions for protective earthing	N/A
ok bu	Terminal complying with clause 8	N/A
ootek A	Locked against loosening and not possible to loosen by hand	N/A





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b.,	IEC 62031	A. atek anbote	Ann
Clause	Requirement + Test	Result - Remark	Verdic
otek p	Not possible to loosen clamping means unintentionally on screwless terminals	Inbotek Anbotek Anbot	N/A
nbote	Earthing via means of fixing	Anbote, And stek and	N/A
Anboten	Earthing terminal only used for the earthing of the control gear	Anbotek Anbotek	N/A
Anbo	All parts of material minimizing the danger of electrolytic corrosion	stek Anbotek Anbotek	N/A
tek A	Made of brass or equivalent material	botek Anbote, And	N/A
-otek	Contact surface bare metal	notek Anbotek Anbo	N/A
rek	Test according 7.2.3 of IEC 60598-1	And otek Anbotek Anb	N/A
(9.2)	Provision for functional earthing	Ant stek subotek	N/A
Aupo	Comply with clause 8 and 9.1	Anba tek abotek	N/A
iek Vupo.	Functional earth insulated from live parts by double or reinforced insulation	tek Anbotek Anbotek	N/A
(9.3)	Lamp controlgear with conductors for protective e circuit board	arthing by tracks on printed	N/A
Anbotek Anbotek	Test with a current of 25 A between earthing terminal and each of the accessible metal parts; measured resistance (Ω) at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω	Anbotek Anbotek A	N/A
(9.4)	Earthing of built-in lamp controlgear	tek upotek Aupote	P
potek	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1	Anbotek Anbotek Anbote	N/A
Anbotek	Earthing terminal only for earthing the built-in controlgear	Anbotek Anbotek Ar	N/A
(9.5)	Earthing via independent controlgear	And rek anbotek	N/A
(9.5.1)	Earth connection to other equipment	er Anbotek	N/A
otek Aut	Looping or through connection, conductor min. 1,5 mm² and of copper or equivalent	potek Anbotek Anbotek	N/A
unbotek	Protective earthing wires in line with 5.3.1.1 and clause 7	Anbotek Anbotek Anbo	N/A
(9.5.2)	Earthing of the lamp compartments powered via the in	dependent lamp controlgear	N/A
k Anbore	Test with a current of 25 A between input and output earth terminals; measured resistance (Ω) between earthing terminal and each of the accessible metal parts at \geq 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 Ω	otek Anbotek Anbotek	N/A







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Anboten	ek abotek Anbotek P	IEC 62031	7 Report No. 18	52403C300	012701
Clause	Requirement + Test	Anbotek Anbote	Result - Remark	pupotek	Verdict
potek An	Output earthing terminal marked 61347-1	d as in 7.1 t) of IEC	oter Anbotek	k Anbotek	N/A

9 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT V	WITH LIVE PARTS	- Otel
- (10.1)	Controlgear protected against accidental contact with live parts	Aupotek Aupotek	Anbotel
- (A2)	Voltage measured with 50 k Ω	(see Annex A)	Pho
- (A3)	Voltage > 35 V peak or > 60 V d.c. or protective impendance device	(see Annex A)	N/A
- (10.1)	Lacquer or enamel not used for protection or insulation	Anbotek Anbotek Anb	P
Anbotek	Adequate mechanical strength on parts providing protection	Anbotek Anbotek	Anborek
· (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V	hotek Anbotek Anbotek	N/A
(10.3)	Controlgear providing SELV	hotek Anbotek Anbo	N/A
Anbotek botek	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear	Anbotek Anbotek Anbotek Ar	N/A
Anbotel	No connection between output circuit and the body or protective earthing circuit	ek Anbotek Anbotek	N/A
potek Aup	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts	potek Anbotek Anbotek	N/A
Anbotek	SELV outputs separated from earth by at least basic insulation	Anbotek Anbotek An	N/A
Ann	ELV conductive parts insulated as live parts	And otek unbotek	N/A
Anbo	Tests according Annex L of IEC 61347-1	Anbo tek anbotek	N/A
(10.4)	Accessible conductive parts in SELV circuits	botek Anbo sek abotek	Pin
otek M	Output voltage under load \leq 25 V r.m.s. or \leq 60 V d.c.	unbotek Anbo, ak abor	N/A
Anbotek Anbotek	If output voltage > 25 V r.m.s. or > 60 V d.c.; No load output ≤ 35 V peak or ≤ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c	Anbotek Anbotek An	N/A
k Aupor	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V	otek Anbotek Anbotek	N/A







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AUD	IEC 62031	And stek Anbotek	Aupor
Clause	Requirement + Test	Result - Remark	Verdict
ok Ant	o. H. Augusta Aug	hotek Anbo. A. stek	~ upo,
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Inbotek Anbotek Anbot	N/A
A. hotek	Y1 or Y2 capacitors comply with IEC 60384-14	botek Anbote An	N/A
Anbote	Resistors comply with test (a) in 14.1 of IEC 60065	Anbotek Anbotek	N/A

10 (11)	MOISTURE RESISTANCE AND INSULATION			- bup
Anbotek hotek	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):			
Amb	For basic insulation \geq 2 M Ω :	More than 100 M Ω	upo.	P
bus -0	For double or reinforced insulation \geq 4 M Ω :	And Lotek Anbotek	Vup	N
otek An	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	botek Anbotek Anbotek	P	Pho

11 (11)	MOISTURE RESISTANCE AND INSULATION After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		
Anbot			
stek An	For basic insulation \geq 2 M Ω :	N/A	
-(11.1)	For double or reinforced insulation \geq 4 M Ω 100 M Ω	P P	
Anbotek	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	N/A	

11 (12)	ELECTRIC STRENGTH			
tek Aup	Immediately after clause 11 electric strength test for 1 min	otek Anbotek Anbotek	P _{Anbo}	
in sigh	Basic insulation for SELV, test voltage 500 V	And otek Anbotek Anbo	N/A	
Anbe	Working voltage ≤ 50 V, test voltage 500 V	Anto stek Anbotek Ant	N/A	
Anbo	Working voltage > 50 V ≤ 1000 V, test voltage (V):	Anbo tek anbotek	N/A	
Vupo.	Basic insulation, 2U + 1000 V	Aupo Pek apotek	AU POTO	
ek Aup	Supplementary insulation, 2U + 1000 V	otek Anbore Andrek	N/A	
ootek p	Double or reinforced insulation, 4U + 2000 V	abotek Anbore Are hote	N/A	







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Anbo	JEC 6203	upoter	Antibo	nbot	ek	Aupor
Clause	Requirement + Test	Anbore	Result - Rema	ark	potek	Verdict
iek ant	atek above. And		otek Anbo		Yes	abor .
otek	No flashover or breakdown		-otek ar			Р
Anbotek hotek	Solid or thin sheet insulation for double or reininsulation fulfil the requirements in Annex N in 61347-1		Anbotek	Anbotek Anbotek	Anbo	otek N

12 (14)	FAULT CONDITIONS		Aupo,
- (14.1)	When operated under fault conditions the controlgear:	inbotek Anb	N/A
nbotek	- does not emit flames or molten material	upotek Aupon Au	rek P
abotek	- does not produce flammable gases	anbotek Anbote Am	work P
abotek	- protection against accidental contact not impaired	Anborek Anbore A	Piek
k Anboh	Thermally protected controlgear does not exceed the marked temperature value	lek Anbotek Anbotek	N/A
nbotek nbotek	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	Short capacitor / resistor / output, No risk	P _{Ant}
- (14.2)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (after any reduction in 14.2 - 14.5)	(see appended table)	Anbotek Anbotek
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	N/A
- (14.4)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.5)	Short-circuit across electrolytic capacitors	(see appended table)	N/A
botek	Short-circuit or interruption of SPDs	(see appended table)	N/A
- (14.6)	After the tests has been carried out on three samples:	ak botek Anbotes	And Parel
Y No	The insulation resistance \geq 1 M Ω	-k hotek Anboten	P.P
e. Pur	No flammable gases	ore Annotek Anbotek	P _{√Up}
DOJO. P	No accessible parts have become live	Anbore And otek Anbor	P A
Anborek	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	Anbotek Anbotek Ant	N/A
- (14.7)	Relevant fault condition tests with high-power a.c. supply and in turn to a d.c. supply	k Anbotek Anboteit	_
12.2 pm	Overpower condition	potek Anboren Ans	Panbo
otek or	Module withstands overpower condition >15 min.	work Anbores Anbo	6 P







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AND	JEC 62031	Anto stek anbotek	Aupo,
Clause	Requirement + Test	Result - Remark	Verdict
SK AUD	o. A. Alek "Upole, Vun	orek Anbo. A. rek	abo'
	Module with automatic protective device or power limiter, test performed 15 min. at limit.	inbotek Anbotek Anbote	N/A
Aupoter	No fire, smoke or flammable gas is produced	Anboter Anb	otek P
Anbotek	Molten material does not ignite tissue paper, spread below the module	Anborek Anborek	inbot P

	14	CONSTRUCTION				N/A
oln.	0. h.	Wood, cotton, silk, paper and similar fibrous material	upo.	h. work	Anbore	N/A
		not used as insulation	Anboten		,	rek p

15 (16)	CREEPAGE DISTANCES AND CLEARANCES		upo,	
- (16.1)	General	Anti-	Aupore	
otek Ando	Creepage distances and clearances according to 16.2 and 16.3	hotek Anbotek Anbotek	Photo	
nbotek	Controlgears providing SELV comply with additional requirements in Annex L	Anbotek Anbotek Anbo	N/A	
Anbore	Insulating lining of metallic enclosures	Anbore And otek	ibote ^P P	
Anbotes	Controlgear protected against pollution comply with Annex P	Anbotek Anbotek	Anb Pak	
- (16.2)	Creepage distances	k hotek Anbotek	PP	
- (16.2.2)	Minimum creepage distances for working voltages			
abover	Creepage distances according to Table 7	(see appended table)	ek P A	
- (16.2.3)	Creepage distances for working voltages with frequency	cies above 30 kHz	N/A	
Anbotek	Creepage distances according to Table 8	(see appended table)	N/A	
- (16.3)	Clearances	ek anbotek Anbot	Potek	
- (16.3.2)	Clearances for working voltages	tek abotek Anbote	P	
- ok	Clearances distances according to Table 9	(see appended table)	P	
- (16.3.3)	Clearances for ignition voltages and working voltages	with higher frequencies	N/A	
Anboro	Clearances distances for basic or supplementary insulation according to Table 10	Anbotek Anbotek An	N/A	
Anbotel	Clearances distances for reinforced insulation according to Table 11	k Anbotek Anbotek	N/A	





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- 030	VU	-0.1	-100	i age oo oi o	7 Report No.	102 100000	012701
Anbo	nbotek	Anbor	bri.	IEC 62031	Andsatek	anbotek	Aupor
Clause	Requirement +	Test Monday	bu.	botek Anbote	Result - Remark	nbotek	Verdict

16 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	, <u> </u>
anbotek	Cl. 17 refer to Cl. 17 of IEC 61347-1 which refer to Cl. 4.11 and 4.12 of IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	_
(4.11)	Electrical connections	N/A
(4.11.1)	Contact pressure	N/A
(4.11.2)	Screws:	N/A
rek na	- self-tapping screws	N/A
,ek	- thread-cutting screws	N/A
(4.11.3)	Screw locking:	N/A
Aupor	- spring washer	N/A
Anbore	- rivets	N/A
(4.11.4)	Material of current-carrying parts	Root
(4.11.5)	No contact to wood or mounting surface	P
(4.11.6)	Electro-mechanical contact systems	N/A
(4.12)	Mechanical connections and glands	N/A
(4.12.1)	Screws not made of soft metal	N/A
Anbo	Screws of insulating material	N/A
Pupo	Torque test: torque (Nm); part:	N/A
ek Aup	Torque test: torque (Nm); part:	N/A
potek A	Torque test: torque (Nm); part:	≫ N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal	N/A
(4.12.4)	Locked connections:	N/A
An hotek	- fixed arms; torque (Nm):	N/A
bus.	- lampholder; torque (Nm):	N/A
Anbo	- push-button switches; torque 0,8 Nm:	N/A
(4.12.5)	Screwed glands; force (Nm):	N/A

17 (18)	7 (18) RESISTANCE TO HEAT, FIRE AND TRACKING			
- (18.1)	Ball-pressure test:	See Test Table 18 (18.1)	N/A	
- (18.3)	Glow-wire test (650°C):	See Test Table 18 (18.3)	N/A	
- (18.4)	Needle-flame test (10 s):	See Test Table 18 (18.4)	N/A	
- (18.5)	Proof tracking test:	See Test Table 18 (18.5)	N/A	







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030	Ville	-01	i age or or c	i itopolitivo.	102-100000	012701
Anb	Anbotek	Aupor	IEC 62031	Ano	nbotek	Anbor
Clause	Requirement +	Test Anbore	k Motek Aupore	Result - Remark	abotek	Verdict

18	RESISTANCE TO CORROSION	*/* /VO /v.	P Anb
Aupote.	- test according 4.18.1 of IEC 60598-1	Anbore And Stek	nbotek P
Anborek	- adequate varnish on the outer surface	tek Anbotek Anbo	nbot P

20	HEAT MANAGEMENT	Aupr
20.1	General Anbotek Anbotek Anbotek Anbotek Anbotek	Aupo
otek	Fulfil clause 20 if replaceable LED module and when heat conducting thermal interface is needed.	P Anh
20.2	Thermal interface material	, P
Anbore	Thermal interface material delivered with the module if necessary	N/A
20.3	Heat protection	N/A
otek	Not impair safety when operated under poor heat- conduction conditions according Annex D	N/A

22	PHOTOBIOLOGICAL SAFETY	100,
22.1	UV radiation	N/A
Anb	Luminous radiation not exceed 2mW/klm	N/A
22.2	Blue light hazard	PAnbo
botek	Assessed according to IEC TR 62778	ek P M
22.3	Infrared radiation	N/A
por potel	Requirements for infrared radiation when required	N/A

A	ANNEX A - TESTS					An-
Alborek A	All tests performed in accordance with the advice given in Annex H of IEC 61347-1, if applicable	A.M.	unbotek	Anbotek	Anbor	N/A





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Anbo	k abotek	Aupois	EN 62493	Antib	anborek	Anbore
Clause	Requirement +	Test Moore	An-	Result - Remark	abotek	Verdict

Attachment 2: EN 62493: 2015

4.2	APPLIC	APPLICATION OF LIMITS (Test summary) —						
" hotek	Specifi	c absorption rate (SAR)	K Aupo.	bu. Potek	Anbote. A	n rek		
a) Anbote	Disturba	15 clause 4.3.1 ance voltage mains terminals – 30 MHz	otek Anbotek	*)	Anbotek Anbotek	Anbotek		
b)	Radiate	15 clause 4.4 d electromagnetic disturban z – 30 MHz	ces Anbotek	Anbotek An	hotek Anbor	ek P Ar		
C) Antonia	Radiate	15 clause 4.4.2 d electromagnetic disturband – 300 MHz	ces Anbotek	*),nbotek	Anbotek Anbotek	Anbotek		
*)	 See separate Test Report for measurements of a), b) and c) above □ Only measurement of d) below. See measurement results below. In this case this test report does not show compliance with IEC 62493. 				2493.	sy. Pupo,		
tek.	Induce	d current density	Anborer	inp tek	anbotek Ant	Р		
d) both	200	Induced current density 20 kHz – 10 MHz See measurement results below				Anborek		
4.2.d	INDUCI	ED CURRENT DENSITY				_		
3K 0'	Powers	supply system utilised:	Aupore. Aur	rek anbot	ek Aupo.	/4		
rek	Voltage	W.po. W. W.	Ant Ant	230VAC	otek Anbo	ok bu		
tek	Freque	ncy		Kupa tek upotek Vupo				
Yupo,	Environ	mental conditions:	ek Anbotek	Anbo	abotek	A POOL		
Anbo	Temper	emperature: 25°C				Anbote		
Anbo	Humidit	y	jotek	59% R.H. —				
K DE	EuT op	eration mode:	Anbo sek abo	tek Vupose	k bu	K _anb		
otek	⊠ Norr	nal operation	Aupo. bu	botek Anb	Oles Ville	Jek _		
botek	☐ Othe	er operation:	Anbor p	botek	Tupole, Tup	ote/-		
4.2.d	MEASU	JREMENT RESULTS			-1	_		
Vu.	Measur	ing with "Van der Hoofden" t	est head	Pur Puek	Anbotek	PUPP-		
Location	of EuT	Measuring distance	Result (F)	l	Limit (F)	Verdict		
Front of E	uT ,	50 cm	Ar. Anbot	Sr. Vup.	0,85	N/A		







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010	VU _D		Yan	i age of	or or ite	port No. 10	JZ400000	012701
Anboatek	c nb	otek	Aupora ok Vi	EN 62493	oten Au	atek.	anbotek	Anbore
Clause	Require	ment + Te	est Anbore	Vu-	Result	- Remark	abotek	Verdict
tek Pupe	, P	Lek	abote	VUD.	pojek	Anbo.	h. rek	abore
Side of Eu	potek	Aupo.	50 cm	Anbore	Ans	0,8	5 Anbo	N/A







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Vupe.	abotek Anbore	IEC TR 62778	Anbo tek anbotek	Aupolo
Clause	Requirement + Test	Ant Anbore	Result - Remark	Verdict

	IEC TR 62778:2014	
Clause	Requirement + Test Result - Remark	Verdict
Supp. otek	Spectrum, colour temperature, and blue light hazard	ar And
5.1 ^{Anbo}	Calculation of blue light hazard quantities and photometric quantities from emission spectra	potek Pupo
5.2 M	Luminance and illuminance regimes that give rise to tmax values below 100s	An Dotek P
7	MEASUREMENT INFORMATION FLOW	Anbo. P.ek
7.1 hotek	Basic flow	Anber P
bus apos	'Law of conservation of luminance' applied	ofer P
k " "	Use of only true luminance/radiance values	inport P An
otek Inbotek	In case of luminaire: The light source is operated in the luminaire under similar conditions as when tested as a component	Anhotek Anbotek
Anbote	In case E _{thr} value for RG2 was established the peak value was derived from angular light distribution	stek Poote
7.2 ant	Conditions for the radiance measurement	upon Pan
tek .	Standard condition applied (200mm distance, 0,011rad field of view)	Ant D. P
upo otek	Non-standard condition applied	N/A
7.3	Special cases (I): Replacement by a lamp or LED module of another type	N/A
VII.	Light source is a white light source	N/A
ek bu	Evaluation done based on highest luminance	N/A
-tek	Evaluation done based on CCT value	N/A
7.4	Special cases (II): Arrays and clusters of primary light sources	N/A
Anborek	LED package is evaluated as ⊠RG0 unlimited ☐ RG1 unlimited	botek Anbo
Y Vup.	Ethr of LED package applies to array	N/A N
3	RISK GROUP CLASSIFICATION	botek P







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	210	104	1 490 01 01 01	11000111101110210001	00012101
			IEC TR 62778		Anboro
14	Clause	Requirement + Test	Anti-	Result - Remark	Verdict

IEC TR 62778:2014						
Clause	Requirement + Test	Result – Remark	Verdict			
5 potek	Spectrum, colour temperature, and blue light hazard	Anbotek Anbote	Prek			
5.1 Market	Calculation of blue light hazard quantities and photometric quantities from emission spectra	k Anbotek Anbotek	P Anbotel			
5.2	Luminance and illuminance regimes that give rise to tmax values below 100s	inpotek Aupotek Aupo	potek Pup			
potek	Risk group achieved:	Anbotek Anbourtek	nbot P			
Anbotek	Risk Group 0 unlimited	Anbotek Anbo	nnbPrek			
Anborer	Risk Group 1 unlimited	k Anbores Anbo	N/A			
Anbor Ant	- E _{thr}	potek Aupotek Aupot	N/A			

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

IEC TR 62778:2014					
Clause	Requirement + Test	Result – Remark	Verdict		
TABLE	SPECTRORADIOMETRIC MEASUREMENT P				
Tested model number			nboten		
Tested voltage:		230VAC	Anbore		
Tested current		0.12A	Anbo		
Tested frequency		Anbotek Anbotek Anbote	tek And		
Ambient temperature		24.5°C	olek h		







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_10	100	1 490 02 01 0	1 110001110110210001	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Anbo	nbotek Anbote	IEC TR 62778	Anbo tek abotek	Anboro
Clause	Requirement + Test	And otek Anbore	Result - Remark	Verdict

IEC TR 62778:2014					
Clause Requirement + Test	Result – Remark Verdict				
Measurement distance:	Andreek Andreek Andreek				
Source size:	Non-small source				
Field of view	☐ 100 mrad⊠11 mrad☐ 1.7 mrad				
Blue light hazard radiance (L _B)	2.94e+01W/(m ² •sr)				
Blue light hazard irradiance	W/m²				
Luminance (L)	cd/m ²				
Illuminance (E _{thr})	Virgolek Vipolek X Vipolek Vipolek				
Calculate distance (d _{min})	ek Anbotek Anbote Anbotek Anbot				

Measurement Uncertainty Statement:

EB, Urel=2.52% (k=2)

LB, Urel=2.84% (k=2)

LR, Urel=2.84% (k=2)





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Attachment 4: Photo Documentation





Shenzhen Anbotek Compliance Laboratory Limited





Hotline

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---End of report---





