

Report No.: 18240SC20024401

Test Report

Client Name DUALRAYS LIGHTING Co., LTD.

3rd Floor, Building A3 | Tianrui Industrial Park **Address**

#35, Fuyuan 1st Road, Fuyong Town, Bao'an

District, Shenzhen

D6 LED Triproof Light Product Name

Date Sept. 23, 2022









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otto Guo

TEST REPORT IEC 60598-2-1

Luminaires

Part 2: Particular requirements:

Section One - Fixed general purpose luminaires

Report Number.....: 18240SC20024401

Date of issue: Sept. 23, 2022

Total number of pages 56 pages report

Tested by (name + signature).....: Otto Guo

Approved by (+ signature) Jeff Zhu

Applicant's name: DUALRAYS LIGHTING Co., LTD.

Address: 3rd Floor, Building A3 | Tianrui Industrial Park #35, Fuyuan 1st

Road, Fuyong Town, Bao'an District, Shenzhen

Test specification:

Standard: IEC 60598-2-1:2020 used in conjunction with IEC 60598-1:2020

Test procedure: Type testing

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

Trade Mark....::

Manufacturer

Test Report Form No.....: IEC60598_2_1H

Test Report Form(s) Originator...: Intertek Semko AB

Master TRF: Dated 2021-05-21

Test item description.....: D6 LED TRIPROOF LIGHT

Intelligent . Healthy . Efficient

3rd Floor, Building A3 | Tianrui Industrial Park #35, Fuyuan 1st

Road, Fuyong Town, Bao'an District, Shenzhen

DUALRAYS LIGHTING Co., LTD.

Factory: DUALRAYS LIGHTING Co., LTD.

3rd Floor,Building A3 | Tianrui Industrial Park #35, Fuyuan 1st

Road, Fuyong Town, Bao'an District, Shenzhen

Model/Type reference.....: See the model list

Ratings....: See the model list









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Summary of testing:

Summary of testing

Tests performed

-EN 60598-1:2015+A1:2018

-EN 60598-2-1:1989

-EN IEC 62031:2020

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

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

Tests performed (name of test and test clause): this report includes following parts:

Attachment 1: Test report of IEC 62031:2018
Attachment 2: test report of EN 62493:2015
Attachment 3: test report of IEC TR 62778

Attachment 4: Photo document

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

Model list

Model No.	Input voltage and frequency	Rated power
DR-TPL050- FG5XPM	200-240VAC, 50/60Hz	50W
DR-TPL060- FG5XPM	200-240VAC, 50/60Hz	60W
DR-TPL040- FG5XPM	200-240VAC, 50/60Hz	40W
DR-TPL040- FG4XPM	200-240VAC, 50/60Hz	40W
DR-TPL030- FG4XPM	200-240VAC, 50/60Hz	30W
DR-TPL023- FG4XPM	200-240VAC, 50/60Hz	23W
DR-TPL020- FG2XPM	200-240VAC, 50/60Hz	20W
DR-TPL015- FG2XPM	200-240VAC, 50/60Hz	15W
DR-TPL012- FG2XPM	200-240VAC, 50/60Hz	12W

Note:

Refer to the above "X" in the model No. means color temperature, W means warm white, N means natural white, D means day white, and C means cool white, the character "2","3","4","5" means length,"2" means 2ft,"5" means 5ft ect.

Refer to "M" in the model No. means high efficiency, model No. without "M" means standard efficiency.







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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.

D6 LED TRIPROOF LIGHT

Model No.: DR-TPL050- FG5XPM

Rating: 200-240VAC, 50/60Hz, 50W

DUALRAYS
Intelligent . Healthy . Efficient





Manufacturer: DUALRAYS LIGHTING Co., LTD.

Address: 3rd Floor, Building A3 | Tianrui Industrial Park #35, Fuyuan 1st Road,

Fuyong Town, Bao'an District, Shenzhen

Importer: xxxxxx

Address: xxxxxx

(stick on lens cover)

Rating label is sticked on the enclosure of DR-TPL050- FG5XPM (Size: height of WEEE mark at least 7mm, height of letters and numbers at least 2mm)





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All K Poles Aug tek	abor Ar k hoter And
Test item particulars	k abotek Anbote And otek Anbotek
Classification of installation and use:	Fixed luminaires for surface mounted
Supply Connection:	Supply cord
Protection Class:	nhotek Anbotek Anbotek Anbotek
Degree of Protection:	IP66
Possible test case verdicts:	Anbotes Anbotes Anbotes
- test case does not apply to the test object:	N/A model Amboret Amboret
- test object does meet the requirement:	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	hoor An hotek Anboten Ann
Date of receipt of test item:	Sept. 13, 2022
Date (s) of performance of tests	Sept. 13, 2022 to Sept. 23, 2022
General remarks:	Anborek Anbotek Anbotek Anbote
The test results presented in this report relate only to the This report shall not be reproduced, except in full, with a "(See Enclosure #)" refers to additional information ap "(See appended table)" refers to a table appended to the	out the written approval of the Issuing testing laboratory. Spended to the report.
Throughout this report a \square comma / \boxtimes point is used Clause numbers between brackets refer to clauses in II	
The text of the international standard IEC 60598-1:2020 without any modification	0 was approved by CENELEC as a European standard
The text of the international standard IEC 60598-2-1:20 without any modification	020 was approved by CENELEC as a European standard
General product information:	or Potek Autora, Villa

All models have the same mechanical and electrical construction. Product size and LED quantity are different.

Unless otherwise specified, model DR-TPL050- FG5XPM was selected as representative models to perform all tests.

IEC 60598-2-1 1.7 (4.24.2) were tested at location 2, others were tested at location 1.



Hotline



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bu. Potek	Anborek Anbo	19E	Noboli	C 6059	8-2-1	Ar. hotek	Anborek	Anbo
Clause	Requirement + Te	est	200	rek	Anbore	Result - Rema	ark anbotek	Verdict
And	otek a	Upo.	be.	40.	100%	Aug	0,40	Vupo.

1.4 (0)	GENERAL TEST REQUIREMENTS		P
1.4 (0.3)	More sections applicable:	Yes No Section/s:	_
1.4 (0.5)	Components	(see Annex 1)	_
1.4 (0.7)	Information for luminaire design in light sources s	standards	_
1.4 (0.7.2)	Light source safety standard:	EN 60598-1	_
otek An	Luminaire design in the light source safety standard	hotek Anbotes Anbo	Panbo

1.5 (2)	CLASSIFICATION OF LUMINAIRES		Р
1.5 (2.2)	Type of protection:	Class I	Ipo. P
1.5 (2.3)	Degree of protection:	IP66	_
1.5 (2.4)	Luminaire suitable for direct mounting on normally flammable surfaces:	Yes ⊠ No □	
1.5 (2.5)	Luminaire for normal use:	Yes ⊠ No □	_
tek.	Luminaire for rough service:	Yes No 🖂	<u> </u>

1.6 (3)	MARKING		Aupold
1.6 (3.2)	Mandatory markings	Anbo sek abotek	MP OTO
tek Aupo	Position of the marking	lotek Wupon My Wodek	Panbot
botek Ar	Format of symbols/text	nbotek Anbot Att	ek P an
1.6 (3.3)	Additional information	abotek Anbore Am	otek P
Pinnotek	Language of instructions	English	Pk.
1.6 (3.3.1)	Combination luminaires	k hotek Anboten	N/A
1.6 (3.3.2)	Nominal frequency in Hz	50/60Hz	AUD.
1.6 (3.3.3)	Operating temperature	ore Ann otek Anbotek	Pupper
1.6 (3.3.5)	Wiring diagram	upoter Aug tek upote	K P Wul
1.6 (3.3.6)	Special conditions	Anbotek Anbo.	N/A
1.6 (3.3.7)	Metal halide lamp luminaire – warning	Anborek Anbo	N/A
1.6 (3.3.8)	Limitation for semi-luminaires	s anbotek Anbote	N/A
1.6 (3.3.9)	Power factor and supply current	rek abotek Anbores	P
1.6 (3.3.10)	Suitability for use indoors	Lek botek Anbore	P
1.6 (3.3.11)	Luminaires with remote control	upon k hotek Aupote	N/A







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bu.	IEC 60598-2-1	An hotek Anboten Ant	-tek
Clause	Requirement + Test	Result - Remark	Verdict
Ans	k hotek Anbo. Anbore	Ann and annotek	Anbo.
1.6 (3.3.12)	Clip-mounted luminaire – warning	stek Anbo. A. hotek	N/A
1.6 (3.3.13)	Specifications of protective shields	botek Anbote Ans	N/A
1.6 (3.3.14)	Symbol for nature of supply	hotek Anboten Anbo	rek P
1.6 (3.3.15)	Rated current of socket outlet	And Anbotek Anb	N/A
1.6 (3.3.16)	Rough service luminaire	Aug wek supotek	N/A
1.6 (3.3.17)	Mounting instruction for type Y, type Z and some type X attachments	Type Y	AnbP Anbot
1.6 (3.3.18)	Non-ordinary luminaires with PVC cable	otek Anbotek Anbo	N/A
1.6 (3.3.19)	Protective conductor current in instruction if applicable	Anbotek Anbotek Anbot	N/A
1.6 (3.3.20)	Provided with information if not intended to be mounted within arm's reach	Anbotek Anbotek A	N/A
1.6 (3.3.21)	Non replaceable and non-user replaceable light sources information provided	Non-user replaceable light source	Anbote
1.6 (3.3.22)	Controllable luminaires, classification of insulation provided	botek Anbotek Anbotek	N/A
1.6 (3.3.23)	Luminaires without control gear provided with necessary information for selection of appropriate component	Anbotek Anbotek Anbo	N/A
1.6 (3.3.24)	If not supplied with terminal block, information on the packaging	ek Anbotek Anbotek	N/A
1.6 (3.3.25)	Luminaires employing light sources emitting UV on mains wiring, information provided	sotek Anbotek Anbotek	N/A
1.6 (3.3.26)	Wall mounted luminaire using external flexible cable or cord longer than 0.3 m, information provided	Anbotek Anbotek Anbot	N/A
1.6 (3.4)	Test with water	15s	P
Ann	Test with hexane	15s Andrew	Aupor P
Anbo.	Legible after test	And tek abotek	PUPOLO
Yupo,	Label attached	otek Anbor An	Bupe

1.7 (4)	CONSTRUCTION	otel P
1.7 (4.2)	Components replaceable without difficulty	P.
1.7 (4.3)	Wireways smooth and free from sharp edges	Piek
1.7 (4.4)	Lamp holders Anborek Anborek Anborek	N/A
1.7 (4.4.1)	Integral lamp holder	N/A
1.7 (4.4.2)	Wiring connection	N/A









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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ano	k hotek Anbot Attack anbote	And k botek	Aupo
1.7 (4.4.3)	Lamp holder for end-to-end mounting	stek Aupo, An hotek	N/A
1.7 (4.4.4)	Positioning	potek Aupote Aug	N/A
hotek	- pressure test (N):	hotek Anboten And	_
Aupotek K	After test the lamp holder comply with relevant standard sheets and show no damage	Anbotek Anbotek Ant	N/A
Anbore.	After test on single-capped lamp holder the lamp holder has not moved from its position and show no permanent deformation	tek Aupotek Aupotek	N/A
lek Aup	- bending test (N):	botek Anbors Al. hotel	_
botek P	After test the lamp holder has not moved from its position and show no permanent deformation	Anbotek Anbotek Anb	N/A
1.7 (4.4.5)	Peak pulse voltage	Aupon bosek	N/A
1.7 (4.4.6)	Centre contact	Anbote And Lotek	N/A
1.7 (4.4.7)	Parts in rough service luminaires resistant to tracking	ek Anboren Ann	N/A
.7 (4.4.8)	Lamp connectors	solek Aupoles Aupo	N/A
1.7 (4.4.9)	Caps and bases correctly used	botek Anboten Anbo	N/A
1.7 (4.4.10)	Light source for lamp holder or connection according IEC 60061 not connected another way	Anbotek Anbotek Anb	N/A
1.7 (4.5)	Starter holders	Anbores And Arek	N/A
Anbotel	Starter holder in luminaires other than class II	ek Anbotek Anbo	N/A
k anbo	Starter holder class II construction	otek Anbotek Anbo.	N/A
.7 (4.6)	Terminal blocks	stek upotek Anbore	P
10. PS	Tails Anbores unbores	Anbo sek abotek Anbo	, P
^{YU} po,	Unsecured blocks	Aupo, Mr. Polek AL	N/A
.7 (4.7)	Terminals and supply connections	Anbos ak hotek	N/A
1.7 (4.7.1)	Contact to metal parts	k Anbore k Anborek	N/A
1.7 (4.7.2)	Test 8 mm live conductor	otek Anboren Ann	Pop
orek An	Test 8 mm earth conductor	botek Anboten Anbo	N/A
1.7 (4.7.3)	Terminals for supply conductors	hotek Anbotek Anbo	P
1.7 (4.7.3.1)	Welded method and material	Amborek Anborek An	P
Aupo	- stranded or solid conductor	Anbotek anbotek	Market P
Vupo,	- spot welding	Anbo ek abotek	N/A
Aupor	- welding between wires	Hek Anbon All hotek	B/p
tok Pup	- Type Z attachment	abotek Anbote And	N/A
-otek	- mechanical test according to 15.6.2	work Anboter Anbo	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
VUD	k abotek Anbo, Anbo, Anbo	te Ann sek abotek	Anbo.
Anbo.	- electrical test according to 15.6.3	abotek Anbo, A. Lote	N/A
itek Anl	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	botek Anbore An	otek P
.7 (4.7.4)	Terminals other than supply connection	hotek Anbotes Ant	N/A
.7 (4.7.5)	Heat-resistant wiring/sleeves	Anbotek Anbotek	N/A
.7 (4.7.6)	Multi-pole plug	And otek Anbotek	N/A
Aup	- test at 30 N	And stek Anbotek	N/A
.7 (4.8)	Switches	botek Anbo sek abotel	N/A
iek Anb	- adequate rating	See annex 1	N/A
potek I	- adequate fixing	anbotek Anbot Att	N/A
botek	- polarized supply	abotek Anbote A	N/A
Anbotek	- compliance with IEC 61058-1 for electronic switches	Anbotek Anbotek	N/A
1.7 (4.9)	Insulating lining and sleeves	potek Anbour An hotek	N/A
.7 (4.9.1)	Retainment	Jorek Anbores Ans	N/A
otek A	Method of fixing:	hotek Anbores Anbo	→ N/A
1.7 (4.9.2)	Insulated linings and sleeves:	Anbotek Anbotek Ar	N/A
Anbotek	Resistant to a temperature > 20 °C to the wire temperature or	k Anbotek Anbotek	N/A
Aupore	a) & c) Insulation resistance and electric strength	otek Anbores Anborek	N/A
K Anbo	b) Ageing test. Temperature (°C):	Notek Anbores Anbo	N/A
.7 (4.10)	Double or reinforced insulation	anbotek Anbotek Anbo	P P
.7 (4.10.1)	No contact, mounting surface – accessible metal parts – wiring of basic insulation	Anbotek Anbotek An	anbote ^K P
Anbore	Safe installation fixed luminaires	Anbore And atek	nbo'P
Anbote	Capacitors and switches	otek Anboket Anbo	N/A
.7 (4.10.2)	Assembly gaps:	notek Anbotek Anbo.	N/A
rek on	- not coincidental	otek anbotek Anbox	N/A
-tek	- no straight access with test probe	who stek abotek Anh	N/A
.7 (4.10.3)	Retainment of insulation:	Auro, W. Polek	N/A
Anbore	- fixed	Anbor An hotek	N/A
Anbotei	- unable to be replaced; luminaire inoperative	tel Anbote And	N/A
Anbot	- sleeves retained in position	parek Anboren Anbo	N/A
rek ant	- lining in lamp holder	motek Anborok Anbo.	N/A
.7 (4.10.4)	Protective impedance device	Trup	N/A







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IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
Arr.	k Anbotek Anbo k botek Anbote	Arr Arbotek	Anbo
rek Anbo	Basic and supplementary insulation bridged by resistor(s) or appropriate capacitor	otek Anbotek Anbotek	N/A
	Double or reinforced insulation bridged by at least two separate resistors in series or appropriate capacitor(s)	Anbotek Anbotek Anbotek Anb	N/A
Aupa	Capacitors comply with IEC 60384-14	Anto sek abotek p	N/A
Anbore	Resistors comply with test (a) in 14.2 of IEC 60065	lek Anbotek Anbotek	N/A
1.7 (4.11)	Electrical connections and current-carrying parts	tek abotek Anbore	N/A
1.7 (4.11.1)	Contact pressure	lpo, by spotek Wilhouse	N/A
1.7 (4.11.2)	Screws:	Anbore Ant Lotek Anbo	N/A
Aupore.	- self-tapping screws	Anbote And Lotek A	N/A
Anboten	- thread-cutting screws	Anboien Anbo	N/A
1.7 (4.11.3)	Screw locking:	tek Anbotek Anbo	N/A
ek Anb	- spring washer	otek Anbotek Anbo	N/A
otek v	- rivets	otek Anbotek Anbot	N/A
1.7 (4.11.4)	Material of current-carrying parts	Anbotek Anbotek	P
1.7 (4.11.5)	No contact to wood or mounting surface	Anbo tek anbotek Ar	P
1.7 (4.11.6)	Electro-mechanical contact systems	Anborrek aborek	N/A
1.7 (4.12)	Screws and connections (mechanical) and glands	ek Aupo, by botek	MP OT
1.7 (4.12.1)	Screws not made of soft metal	otek Anbore And botek	Pant
otek A	Screws of insulating material	obotek Anbots, Anb	≫ N/A
Anbotek	Torque test: torque (Nm); part	Fixed enclosure screw, 3.17mm 0.5Nm	ootek P
Anbo.	Torque test: torque (Nm); part	Fixed LED driver screw, 2.82mm, 0.4Nm	Anbore bore
k abo	Torque test: torque (Nm); part	tek upotek Aupo, ok	N/A
1.7 (4.12.2)	Screws with diameter < 3 mm screwed into metal	tek abotek Anbote	N/A
1.7 (4.12.4)	Locked connections:	Auporek Auporek	N/A
nbor	- fixed arms; torque (Nm)	Anborr Ant Notek Ant	N/A
Anboren	- lamp holder; torque (Nm)	Anbores, And otek	N/A
Anborek	- push-button switches; torque 0,8 Nm	Anbores Anbo	N/A
1.7 (4.12.5)	Screwed glands; force (Nm)	Plastic gland: 17.35mm, 5Nm	Pala
1.7 (4.13)	Mechanical strength	otek Anbotek Anbot	P
1.7 (4.13.1)	Impact tests:	who ak hotek Anbore	v P







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Aur	k obotek Aubo, W Postek Wupote	And tek apporek	Anbo.
K Aupo.	- fragile parts; energy (Nm)	0.2Nm for LED cover	Pribe
otek Ant	- other parts; energy (Nm):	0.35Nm for Enclosure	P
hotek	1) live parts	hotek Anboten And	P P
hotek	2) linings	Ant Lotek Anbotek Ant	N/A
And	3) protection	Anu otek Anbotek	upo, b
VUD.	4) covers	Augo sek upotek	Aupb.
1.7 (4.13.2)	Metal parts have adequate mechanical strength	tek Anbo tek abotek	1R/00
1.7 (4.13.3)	Straight test finger	botek Anbor Ak hotel	P
1.7 (4.13.4)	Rough service luminaires	abotek Anbotes And	N/A
hotek	- IP54 or higher	potek Anboros Anb	N/A
por work	a) fixed	Anbotek Anbotek A	N/A
Ano otel	b) hand-held	And otek Anbotek	N/A
Aupo	c) delivered with a stand	er Anbotek	N/A
otek Wup.	d) for temporary installations and suitable for mounting on a stand	potek Anbotek Anbotek	N/A
1.7 (4.13.6)	Tumbling barrel	Anbotek Anbotek Anb	N/A
1.7 (4.14)	Suspensions, fixings and means of adjusting	Ann otek Nupotek Al	P
1.7 (4.14.1)	Mechanical load:	Anbotek anbotek	Aupo P
Pupo.	A) four times the weight	1.86*4=7.44kg	P/PO
Anbo	B) torque 2,5 Nm	potek Anboy ak botek	Pant
lotek bi	C) bracket arm; bending moment (Nm)	nbotek Anbore An	[™] N/A
botek	D) load track-mounted luminaires	abotek Anbote Anb	N/A
Anborek	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	Anbotek Anbotek An	N/A
Anboro	Metal rod. diameter (mm):	k Aupon k hotek	N/A
K Aupo	Fixed luminaire or independent control gear without fixing devices	otek Anbotek Anbotek	N/A
1.7 (4.14.2)	Load to flexible cables	Anbo, All spotek Aubor	N/A
upor	Mass (kg)	Anboy An hotek An	_
Pupose	Stress in conductors (N/mm²)	Aupone K Hun	N/A
Anboren	Mass (kg) of semi-luminaire	Anboren Anbo	N/A
Anbor	Bending moment (Nm) of semi-luminaire	Hek Anborek Anbo	N/A
1.7 (4.14.3)	Adjusting devices:	otek Anbotek Anbore	N/A
()	- flexing test; number of cycles:	hou atel napote	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
K Pir.	And the halian arek antotek Anboro	ak hotek Anbotek	Anbo
And	- strands broken	ofer And Anbotek	N/A
oter Ant	- electric strength test afterwards	abotek Anbo tek anbote	N/A
1.7 (4.14.4)	Telescopic tubes: cords not fixed to tube; no strain on conductors	Anbotek Anbo. Ank	N/A
1.7 (4.14.5)	Guide pulleys	Anbore An sotek	N/A
1.7 (4.14.6)	Strain on socket-outlets	Anbote And otek	N/A
1.7 (4.15)	Flammable materials		N/A
rek anb	- glow-wire test 650°C	See Test Table 1.15 (13.3.2)	Р
stek .	- spacing ≥30 mm	otek Anbotek Anbo	N/A
loc rek	- screen withstanding test of 13.3.1	Ando tek anbotek Anbo	N/A
Aupo.	- screen dimensions	Anbo. Lek shotek A	N/A
Auport	- no fiercely burning material	Anboy Ak botek	N/A
Anbore	- thermal protection	ek Anbore And	N/A
ek Aupo	- electronic circuits exempted	potek Anbotes And	N/A
1.7 (4.15.2)	Luminaires made of thermoplastic material with lamp of	control gear	N/A
Lotek	a) construction	Hotek Anbotek Anb	N/A
And Lotek	b) temperature sensing control	And Anbotek A	N/A
Anbu	c) surface temperature	And stek anbotek	N/A
1.7 (4.16)	Luminaires for mounting on normally flammable s	urfaces was a model	A.P.
Anbo	No lamp control gear:	(compliance with Section 12)	N/A
Anbotek Ar	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces	Anbotek Anbotek Anbo	N/A
1.7 (4.16.1)	Lamp control gear spacing:	Anborek Anbor Al	abo'P
aboter	- spacing 35 mm	k abotek Anbote	Pote,
k whot	- spacing 10 mm	sek abotek Anbote	N/A
1.7 (4.16.2)	Thermal protection:	o. W. Potek Vulpater	N/A
015 / 2 <u>/</u> /U	- in lamp control gear	into All Motek Anbot	N/A
"Upole.	- external	Antoite Ant Lotek An	N/A
Auporen	- fixed position	Anbore Anv	N/A
Anbotek	- temperature marked lamp control gear	- Anboter Anbo	N/A
1.7 (4.16.3)	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
1.7 (4.17)	Drain holes	notek Anborek Anbor	N/A
7 (H11) (v)	Clearance at least 5 mm	no k solek Anboli	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
1.7 (4.18)	Resistance to corrosion	tek aborek Anboren	N/A
1.7 (4.18.1)	- rust-resistance	ook hotek Anbotek	N/A
N. 187	Lok apole has a lock	mbote And Lotek Anbote	N/A
1.7 (4.18.2)	- season cracking in copper - corrosion of aluminium	Anbotek And	188
1.7 (4.18.3)	Au. K Polok Mapo L. Sek	Antotek Anbo tek	N/A
1.7 (4.19)	Ignitors compatible with ballast	Aupotek Aupor	N/A
1.7 (4.20)	Rough service vibration	tek obotek Anbore	N/A
1.7 (4.21)	Protective shield	or Writek Pupoter	N/A
1.7 (4.21.1)	Shield fitted if tungsten halogen lamps or metal halide lamps	bote Anbotek Anbotel	N/A
us rek	Shield of glass if tungsten halogen lamps	And anbotek Anb	N/A
1.7 (4.21.2)	Particles from a shattering lamp not impair safety	Anbo sek abotek A	N/A
1.7 (4.21.3)	No direct path	Anbo. A. abotek	N/A
1.7 (4.21.4)	Impact test on shield	lek Aupo, ak bosek	N/A
tek bup	Glow-wire test on lamp compartment	See Test Table 1.15 (13.3.2)	N/A
1.7 (4.22)	Attachments to lamps not cause overheating or damage	Anbotek Anbotek Anbo	→ N/A
1.7 (4.23)	Semi-luminaires comply Class II	Anbore k wotek Ar	N/A
1.7 (4.24)	Photobiological hazards	Vuporo. Vup	N/A
1.7 (4.24.1)	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	ak Anbotek Anbotek	N/A
1.7 (4.24.2)	Retinal blue light hazard	both Anbotek Anbotek	Panto
botek A	Class of risk group assessed according to IEC/TR 62778	Anbotek Anbotek Anbot	_
Potek	Luminaires with Ethr:	Ant Anborek An	Р
And otek	a) Fixed luminaires	And otek Anbotek	Anbot P. al
PL/D	- distance x m, borderline between RG1 and RG2:	RG0	Pubolo
SK VUPO	- marking and instruction according 3.2.23	coler Bupo, wek "potek	N/A
potek PL	b) Portable and handheld luminaires	unbotek Antion All	N/A
Anbotek	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	Anbotek Anbotek Ant	N/A
Anbotek Anbotek	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	Anbotek Anbotek	N/A
1.7 (4.25)	Mechanical hazard	on Augusta	P
over buy	No sharp point or edges	hoose And	P N







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	IEC 60598-2-1		
Clause	Requirement + Test Result	- Remark	Verdict
1.7 (4.26)	Short-circuit protection	Anborek Anborek	N/A
1.7 (4.26.1)	Adequate means of uninsulated accessible SELV / PELV parts	Anbotek Anbote	N/A
1.7 (4.26.2)	Short-circuit test with test chain according 4.26.3:	K Anbo. Kek An	N/A
Anborek	Supply source ES1 PSE	otek Aupo stek	N/A
Anborek	Test chain not melt through	upotek Aupo	N/A
Anbore	Test sample not exceed values of Table 12.1 and 12.2	Anbotek Anbotek	N/A
1.7 (4.27)	Terminal blocks with integrated screwless protective eart	hing contacts	N/A
upote.	Test according Annex V	And stek and	N/A
Anbotek	Pull test of terminal fixing (20 N)	ter And	N/A
anbotek	After test, resistance < 0,05 Ω	hbotek Anbo	N/A
Anbore	Pull test of mechanical connection (50 N)	Anbotek Anbo	N/A
ek nb	After test, resistance < 0,05 Ω	Anbotek Anbot	N/A
rek .	Voltage drop test, resistance $< 0.05 \Omega$	anbotek Anbote	N/A
1.7 (4.28)	Fixing of thermal sensing control	ek abotek Anb	N/A
Aupor	Not plug-in or easily replaceable type	ek spotek	N/A
Aupo.	Reliably kept in position	por hotek	N/A
ek Pupo,	No adhesive fixing if UV radiations from a lamp can degrade the fixing	Anbotek Anbotek	N/A
.ek	Not outside the luminaire enclosure	anbotek Anbote	N/A
20. P	Test of adhesive fixing:	ek abotek Anbo	N/A
	Max. temperature on adhesive material (°C)		9 —
Anboro	100 cycles between t min and t max	oor Ar. hotek	N/A
Anbore	Temperature sensing control still in position	Anbore K An-	N/A
1.7 (4.29)	Luminaires with non-replaceable light source	Anbore. And Lotek	N/A
otek An	Not possible to replace light source	Anboren And	N/A
inbotek k	Live part not accessible after parts have been opened by hand or tools	k Anbotek Anbo	N/A
1.7 (4.30)	Luminaires with non-user replaceable light source	of And Lotek	unbot P
Anbote.	If protective cover provide protection against electric shock an electric shock risk" symbol:	d marked with "caution,	AntBrek
V VIII	At least one fixing means requiring use of tool	All Anbotek	N/A
1.7 (4.31)	Insulation between circuits	And the	PAT







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hotek	IEC 60598-2-1	Potek Aupote, Au	stek
Clause	Requirement + Test	Result - Remark	Verdict
Ann	k potek Anbor Ar stek anbore	And botek	Anbo.
rek Aupon	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	stek Anborek Anborek	Anbo
nbotek Anbotek	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 Anbotek Anbotek Anbote	N/A
1.7 (4.31.1)	SELV or PELV circuits	Anboten Anbotek	Bek
anbore	Used SELV/PELV source	lek Anbotek Anbo	Pool
rek nob	Voltage ≤ ELV	otek Anbotek Anbo.	Р
rek .	Insulating of SELV/PELV circuits from LV supply	tek upotek Anbore	P
anbotek	Insulating of SELV/PELV circuits from other non SELV/PELV circuits	Anbotek Anbotek Anb	N/A
Anbotek	Insulating of SELV/PELV circuits from FELV	Anbotek Anbot A	N/A
Anborel	Insulating of SELV/PELV circuits from other SELV/PELV circuits	ek Anbotek Anbotek	N/A
ek Aup	SELV/PELV circuits insulated from accessible parts according Table X.1	potek Anbotek Anbotek	P _A nt
Anbotek	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	N/A
ak Anbo	Plugs and socket-outlets does not have protective conductor contact	otek Anbotek Anbotek	N/A
1.7 (4.31.2)	FELV circuits	botek Anbote. And	N/A
hotek	Used FELV source	hotek Anboten Anb	N/A
Vue Potek	Voltage ≤ ELV	And Lotek Anbotek An	N/A
Ann	Insulating of FELV circuits from LV supply	And Lotek Anbotek	N/A
k Anbot	FELV circuits insulated from accessible parts according Table X.1	otek Anbotek Anbotek	N/A
otek An	Plugs not able to make any electrical contact with socket-outlets of other voltage systems	Inbotek Anbotek Anbot	N/A
nbotek	Socket outlets does not admit plugs of other voltage systems	Anbotek Anbotek Ant	N/A
Anbotek	Socket-outlets does not have protective conductor contact	Anbotek Anbotek	N/A
1.7 (4.31.3)	Other circuits	otek Anbore And	Papo
stek Ant	Other circuits insulated from accessible parts according Table X.1	Upotek Aupoten Aupote	P







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ann	k Anbotek Anbo k botek Anbote	Ann Andrew	Anbo
k Anbo	Class II construction with equipotential bonding for prowith live parts:	stection against indirect contacts	N/A
	- conductive parts are connected together	upo, ak hotek Aupote	N/A
inpose	- test according 7.2.3	Anbore K hotek Anb	N/A
Anborek	- conductive part not cause an electric shock in case of an insulation fault	Anborek Amborek	N/A
r hote	- equipotential bonding in master/slave applications	ok hotek Anbote	N/A
stek Anb	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	botek Anbotek Anboten	N/A
bojek I	- slave luminaire constructed as class I	potek Aupore Aug	N/A
1.7 (4.32)	Overvoltage protective devices	hotek Anhotes Anh	N/A
And	Comply with IEC 61643-11	And Anbotek A	N/A
Vub.	External to controlgear and connected to earth:	Anto otek nabotek	N/A
AUDO	- only in fixed luminaires	er Anboutek	N/A
lek Yup	- only connected to protective earth	potek Anbotek	N/A
1.6 (4.33)	Luminaire powered via information technology co	mmunication cabling	N/A
Motek	Requirements for Class III luminaire	Anbotek Anbote Att	N/A
Anbotek	Rated voltage within the range of ES1 and does not exceed maximum voltage of used connector	Anbotek Anbotek	N/A
ek Vupo	Luminaire does not create any hazard from overvoltage	(see Annex 2)	N/A
1.6 (4.34)	Electromagnetic fields (EMF)	otek Anbotek Anbote	Р
Anbotek Anbotek	No harmful electromagnetic fields	The submitted samples were LED-light-source technology, they were found to comply with the requirement of IEC 62493:2015 without test	pořek P Ambořek
1.6 (4.35)	Protection against moving fan blades	tek abotek Anboy	N/A
Lak A	Test with a standard test finger	Lek abotek Anbote	N/A
nbotek A	Test with test probe acc. to Figure 13 (IEC 61032) for portable luminaire	Anbotek Anbotek Anbot	N/A
abotek	Blades rounded with radius ≥ 0.5 mm and:	abotek Anbors Am	N/A
porek .	-hardness less than D60 Shore	abotek Anboten	N/A
k koh	-peripheral speed less than 15 m/s	ok botek Anbotet	N/A
Pur.	-input power of fan ≤ 2 W at rated voltage	on Annotek Anbotek	N/A
107	NO 100 100 100 100 100 100 100 100 100 10	40, 446	

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Track-mounted luminaires

1.6 (4.36)





N/A



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Votek	Anbotek Anbo	IEC 60598	3-2-1	Air. Hotek Ar	poter An	o tek
Clause	Requirement + Test	botek	Anbore	Result - Remark	anborek	Verdict
AUG	k botek Anbo	Pr. Teck	abole	PUD.	hotek	Aupo
	Test in accordance with Anne. IEC60570:2003/AMD2:2019	x A of	Anb			N/A

1.8 (11)	CREEPAGE DISTANCES AND CLEARANCES		P
1.8 (11.2.1)	Impulse withstand category (Normal category II)	Category II Category III	_
Anbore	Category III according Annex U	Anbores Anbo	N/A
k Aupore	Protected against pollution, reduced creepage and clearance according Annex P of IEC 61347-1	tek Anbotek Anbotek	N/A
1.8 (11.2.2)	Creepage distances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	P VUL
inpole	Creepage distances for frequency over 30 kHz:	Anbore And	N/A
Anbotek	- Controlgear marked with \hat{U}_{OUT} and f_{UOUT} according IEC 61347-1, clause 7.1, item w	See Test Table 1.7 (11.2) II	N/A
Anbotel	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A
1.8 (11.2.3)	Clearances for frequency up to 30 kHz	See Test Table 1.7 (11.2) I	Ponto
notek p	Clearances distances for frequency over 30 kHz:	hotek Anbotek Anb	N/A
w otek	- Controlgear marked with U _P	See Test Table 1.7 (11.2) II	N/A
Anbotek	- Requirements according IEC 60664-4 for controlgear not covered by IEC 61347	See Test Table 1.7 (11.2) II	N/A

1.9 (7)	PROVISION FOR EARTHING		Pabol
1.9 (7.2.1 + 7.2.3)	Accessible metal parts	Anbotek Anbotek Anbot	A P
Anbore	Metal parts in contact with supporting surface	Anbote And stek And	o ^{tek} P
Anbotel	Resistance < 0,5 Ω	0.021Ω	nbo*P ^k
anbotek	Self-tapping screws used	k Anbotek Anbo	N/A
ek anbo	Thread-forming screws	otek anbotek Anbous	P
rek or	Thread-forming screw used in a grove	stek anbotek Anbor	N/A
,eX	Protective earth makes contact first	rupp sek upotek Vupos	P
Anbotek Anbotek	Terminal blocks with integrated screwless protective earthing contacts tested according Annex V	Anbotek Anbotek Ant	N/A
Anbotek	Protective earthing of the luminaire not via built-in control gear	Anbotek Anbotek	N/A
1.9 (7.2.2 + 7.2.3)	Protective earth continuity in joints, etc.	hotek Anbotek Anbotek	Pipote
1.9 (7.2.4)	Locking of clamping means	ne stek subotek Anbor	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
ALIE	k hotek Anbott Att tek anbotte	And ak hotek	Aupo.
Anbor	Compliance with 4.7.3	otek Anbore An hotek	N/A
1.9 (7.2.5)	Protective earth terminal integral part of connector socket	nbotek Anbote Anbote	N/A
1.9 (7.2.6)	Protective earth terminal adjacent to mains terminals	Anbore Ant	N/A
1.9 (7.2.7)	Electrolytic corrosion of the protective earth terminal	Anbore And Otek	N/A
1.9 (7.2.8)	Material of protective earth terminal	Anbore, And	N/A
Anbore	Contact surface bare metal	tek Anbotek Anbo.	N/A
1.9 (7.2.10)	Class II luminaire for looping-in	otek Anbotek Anbo	N/A
stek .	Double or reinforced insulation to functional earth	otek Anbotek Anbo	N/A
1.9 (7.2.11)	Protective earthing core coloured green-yellow	Anbo tek nbotek Anb	Р
Aupo	Length of earth conductor	Aupo, botek b	nbores P
1.9 (7.2.12)	PELV circuit connected to protective earth for functional purpose	ek Anbotek Anbotek	N/A

0	1.10 (14)	SCREW TERMINALS		N/A
P	upo. P	Separately approved; component list	(see Annex 1)	N/A
	Anbor	Part of the luminaire	(see Annex 3)	N/A

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

1.11 (5)	EXTERNAL AND INTERNAL WIRING		N/A
1.11 (5.2)	Supply connection and external wiring	And tek abotek	N/A
1.11 (5.2.1)	Means of connection	Terminal block	AUDOLE .
botek Anborek	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	otek Anborek Anbotek Inbotek Anbotek Anbotek Anbotek Anbotek Anbote	N/A
1.11 (5.2.2)	Type of cable	Aupor Au Potek	nboten.
Anbore	Nominal cross-sectional area (mm²):	Anbore Ans otek	Ant Prek
ek Anbor	Cables equal to IEC 60227 or IEC 60245	otek Anbote And	Phote
1.11 (5.2.3)	Type of attachment, X, Y or Z	Type Y	P
1.11 (5.2.5)	Type Z not connected to screws	notek anbotek Anbo	N/A







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hotek	IEC 60598-2-1	hotek Anbore An	rek
Clause	Requirement + Test	Result - Remark	Verdict
Ann	k potek Anbo. Anbor	And abotek	Anbo.
1.11 (5.2.6)	Cable entries:	potek Anbor An wotek	Dalo
otek Ant	- suitable for introduction	-botek Anbote And	P
	- adequate degree of protection	hotek Anboten Anb	P P
1.11 (5.2.7)	Cable entries through rigid material have rounded edges	Anbotek Anbotek Anb	hbotek
1.11 (5.2.8)	Insulating bushings:	k Anbore. And Stek	Anbatek
Anbore	- suitably fixed	otek Anboten Anbo	N/A
rek anb	- material in bushings	Lotek Anbotek Anbo	N/A
iek.	- material not likely to deteriorate	tek upotek Anbou	N/A
loo.	- tubes or guards made of insulating material	Anbe tek abotek Anbe	N/A
1.11 (5.2.9)	Locking of screwed bushings	Anbo ak abotek A	N/A
1.11 (5.2.10)	Cord anchorage:	Anbotek Anbotek	Anb P
ek nb	- covering protected from abrasion	rek upotek Anbor	P
rok he	- clear how to be effective	ribo tek abotek Anbore	, P
Do b	- no mechanical or thermal stress	Anboy Ak botek Anbo	Р
Aupor	- no tying of cables into knots etc.	Aupon K Wotek Au	pole P
Aupore	- insulating material or lining	Anbore Anti-	Anbo P
1.11 5.2.10.1)	Cord anchorage for type X attachment:	tek Anbotek Anbotek	An b ot
-K	a) at least one part fixed	Born Anboter	N/A
O. D.	b) types of cable	Aupole Aur Olek Aupol	N/A
'upoles	c) no damaging of the cable	Anbores And	N/A
Anbotel	d) whole cable can be mounted	Anbotes Anbo	N/A
Anbotek	e) no touching of clamping screws	ek Anbotek Anbo	N/A
k abot	f) metal screw not directly on cable	stek anbotek Anboro	N/A
*6/k . v/	g) replacement without special tool	tek abotek Anbote	N/A
P. P.	Glands not used as anchorage	Anbor	N/A
upor	Labyrinth type anchorages	Anbor Ant	N/A
l.11 5.2.10.2)	Adequate cord anchorage for type Y and type Z attachment	Type Y	nbotek P
.11 5.2.10.3)	Tests: Andrew Andrew Andrew Andrew	potek Anbotek Anbotek	P Anbr
Hek Ant	- impossible to push cable; unsafe	For 3*1.0mm ² supply cord	P
"Otek	- pull test: 25 times; pull (N):	60	stel ^k P







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IEC 60598-2-1			
Clause	Requirement + Test	Result - Remark	Verdict
k apol	- torque test: torque (Nm):	0.25	P.bo
rek a	- displacement ≤ 2 mm	0.83mm	V P
or Air	- no movement of conductors	Poster Public	у Р
inpose ak	- no damage of cable or cord	Anbore An	P
Aupole	- function independent of electrical connection	Anbore And botek	nboten P.
1.11 (5.2.10.4)	Luminaire with/designed for use with supply cord with	maximum current of 2A:	N/A
tek Ant	- Ordinary Class III luminaire supplied with SELV ≤ 25V RMS/60V DC	botek Anbotek Anbotek	N/A
anbotek	- 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
And	Pull test of 30N	le. And otek Anbotek	N/A
1.11 (5.2.11)	External wiring passing into luminaire	botek Anbotek Anbotek	N/A
1.11 (5.2.12)	Looping-in terminals	Anbotek Anbotek Anbo	N/A
1.11 (5.2.13)	Wire ends not tinned	Anbotek Anbotek	AnboP ^K
ok bi.	Wire ends tinned: no cold flow	ok hotek Anboten	P
1.11 (5.2.14)	Mains plug same protection	nbotek Anbotek Anbotek	N/A
botek	Class III luminaire plug	hotek Anbore Ans	N/A
hotek.	No unsafe compatibility	botek Anbote An	N/A
1.11 (5.2.15)	Connectors for Class III luminaires (IEC 60603 or IEC 62680)	k Anbotek Anbotek	N/A
1.11 (5.2.16)	Appliance inlets (IEC 60320)	otek Anbotek Anbotek	N/A
0, by	Installation couplers (IEC 61535)	Inbo, All Potek Aupor	N/A
nboro	Appliance inlet or connector systems (IEC 61984)	Anboro An	N/A
1.11 (5.2.17)	No standardized interconnecting cables properly assembled	Anbotek Anbotek	N/A
1.11 (5.2.18)	Used plug in accordance with	otek Anbotek Anbotes	N/A
otek Ani	- IEC 60083	opotek Aupora Au	N/A
hotek	- other standard	hotek Anbotes Anb	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ano	k obotek Anbo. K. hotek Anboti	And sek spotek	Anbo.
1.11 (5.3)	Internal wiring	potek Aupo, K Wotek	Palo
1.11 (5.3.1)	Internal wiring of suitable size and type	-botek Anbote And	P
	Through wiring		P P
in otek	- not delivered/ mounting instruction	And Anbotek Ant	N/A
Ant stek	- factory assembled	And otek Anbotek	N/A
Ano	- socket outlet loaded (A):	Anto tek abotek	N/A
Vupo.	- temperatures:	(see Annex 2)	18/00°
tek Anb	Green-yellow for protective earth only	hotek Anbore Anbore	P P
1.11 (5.3.1.1)	Internal wiring connected directly to fixed wiring	Anbotek Anbotek Anb	N/A
Aupo,	Cross-sectional area (mm²):	Vupos by by	N/A
Anboro	Insulation thickness (mm):	Anbore An hotek	N/A
Anbore	Extra insulation added where necessary	lek Aupores, Aurolek	N/A
1.11 (5.3.1.2)	Internal wiring connected to fixed wiring via internal cu	urrent-limiting device	PAN
1000 P	Cross-sectional area (mm²)	22AWG	Р
1.11 (5.3.1.3)	Double or reinforced insulation for class II	Anbotek Anbotek A	N/A
1.11 (5.3.1.4)	Conductors without insulation	ak Anbotek Anbotek	N/A
1.11 (5.3.1.5)	SELV/PELV current-carrying parts	botek Anbotek Anbotek	N/A
1.11 (5.3.1.6)	Insulation thickness other than PVC or rubber	Anbotek Anbotek Anbo	N/A
1.11 (5.3.2)	Sharp edges etc.	anborek Anbors Al	N/A
abotek	No moving parts of switches etc.	ok abotek Anbote	N/A
k "po,	Joints, raising/lowering devices	sek shotek Anbotes	N/A
ek bu	Telescopic tubes etc.	lorg VIII Potek Vipotek	N/A
O _{EC} . N	No twisting over 360°	Ambore Ann botek Anbor	N/A
1.11 (5.3.3)	Insulating bushings:	Anboter And	N/A
Anborek	- suitable fixed	Auporak Pupo K	N/A
Anborak	- material in bushings	k Aupolak Alipo,	N/A
c abot	- material not likely to deteriorate	tek vupojek vupoje	N/A
rek Ar	- cables with protective sheath	tek obotek Antotes	N/A
1.11 (5.3.4)	Joints and junctions effectively insulated	upo, by,	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Anto	k botek Anbore Ant tek nboti	And ak hotek	Anboro
1.11 (5.3.5)	Strain on internal wiring	brek Anbore And work	N/A
1.11 (5.3.6)	Wire carriers	botek Anbore And	N/A
1.11 (5.3.7)	Wire ends not tinned	hotek Anbotek Anbo	N/A
no otek	Wire ends tinned: no cold flow	And Anbotek Anb	N/A
1.11 (5.4)	Test to determine suitability of conductors having area	a reduced cross-sectional	N/A
Anbore	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A
No. Will	No damage to luminaire wiring after test	hore Arm tek abotel	N/A

1.12 (8)	PROTECTION AGAINST ELECTRIC SHOCK		boteP
1.12 (8.2.1)	Live parts not accessible	Anbotek Anbo	- ab R≥K
Anborel	Basic insulated parts not used on the outer surface without appropriate protection	ek Anbotek Anbotek	P Anbotel
upotek Aup	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	Anbotek Anbotek Anbotek	N/A
Anborek	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	Anbotek Anbotek An	N/A
tek Anbotek	Lamp and starter holders in portable and adjustable luminaires comply with double or reinforced insulation requirements	otek Anbotek Anbotek	N/A
ibotek Ar	Basic insulation only accessible under lamp or starter replacement	Anbotek Anbotek Anbot	N/A
Anbotek	Protection in any position	Anborek Anbo	ote ^K P
Anbotek	Double-ended tungsten filament lamp	Anborek Anbo	N/A
nbotek	Insulation lacquer not reliable	k vopolsk Aupo,	N/A
ek abot	Double-ended high-pressure discharge lamp	sek abotek Anbote	N/A
potek An	Relevant warning according to 3.2.18 fitted to the luminaire	nbotek Anbotek Anbote	N/A
1.12 (8.2.2)	Portable luminaire adjusted in most unfavourable position	Anbotek Anbotek Anb	N/A
1.12 (8.2.3.a)	Class II luminaire:	k Anbotek Anbotek	N/A
Anboth	- basic insulated metal parts not accessible during starter or lamp replacement	stek Anbotek Anbotek	N/A
potek Ani	- basic insulation not accessible other than during starter or lamp replacement	nbotek Anbotek Anbotek	N/A







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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
An	k Anbotek Anbo k abotek Anbote	Ann Annotek	Anbo
k Anbo	- glass protective shields not used as supplementary insulation	otek Anbotek Anbotek	N/A
1.12 (8.2.3.b)	BC lamp holder of metal in class I luminaires shall be connected to protective earth	nbotek Anbotek Anbote	N/A
1.12 (8.2.3.c)	SELV circuits with exposed current carrying parts:	Anbotek Anbotek An	N/A
Anbo	Ordinary luminaire:	Anbo ak botek	N/A
Aupore	- voltage under load/ no-load AC (V):	lek Anbout An hotek	N/A
rek Ant	- voltage under load/ no-load DC (V)	botek Anboten And	N/A
notek I	- interrupted DC voltage (V)	potek Anborek Anbo	N/A
otek	- touch current if applicable (mA):	And Anborek Anb	N/A
Pup.	One conductive part insulated if required	And stek Anbotek A	N/A
VIII00	Other than ordinary luminaire:	Anbo tek anbotek	N/A
Aupo.	- voltage under load/ no-load AC (V)	ex Aupo, ak apotek	N/A
ek Vup.	- voltage under load/ no-load DC (V)	botek Anbor All botek	N/A
potek p	- interrupted DC voltage (V)	anbotek Anbore & Ant	[≫] N/A
abotek	Class III luminaire only for connection to SELV	abotek Anbotes Anb	N/A
Anbotek	Class III luminaire not provided with means for protective earthing	Anbotek Anbotek An	N/A
1.12 (8.2.3.d)	PELV circuits with exposed current carrying parts:	er Anbotek Anbotek	N/A
rek u	Ordinary luminaire:	otek Anbotek Anbote	N/A
*ek	- voltage under load/ no-load AC (V):	Anbotek Anbotek	N/A
Yupo,	- voltage under load/ no-load DC (V)	Aupo, Pr. Społek Wy	N/A
Auporo	Other than ordinary luminaire:	Aupore Augusta	N/A
Anborn	- voltage under load/ no-load AC (V):	k Anbors k motek	N/A
k Aupo,	- voltage under load/ no-load DC (V)	otek Anboten Anbotek	N/A
otek an	One pole insulated if required	botek Anbotek Anbo	N/A
1.12 (8.2.4)	Portable luminaire has protection independent of supporting surface	Anbotek Anbotek Ant	N/A
1.12 (8.2.5)	Compliance with the standard test finger or relevant probe	Anbotek Anbotek	N/A
1.12 (8.2.6)	Covers reliably secured	tek abotek Anbore	N/A
1.12 (8.2.7)	Luminaire other than below with capacitor > 0,5 μF not exceed 50 V 1 min after disconnection	botek Anbotek Anbotes	N/A







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bi.	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
AUG	k hotek Anboy Anboy	And sk botek	Anbo
	Portable luminaire with capacitor $>$ 0,1 μ F (0.25) not exceed 34 V 1 s after disconnection	batek Anbotek Anbotek	N/A
Anbotek A.	Other luminaires with capacitor $>$ 0,1 μ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection	Anbotek Anbotek Anbot	N/A

1.13 (12)	ENDURANCE TEST AND THERMAL TEST		Aupb.
1.13 (-)	If IP > IP 20 relevant test of (12.4), (12.5), (12.6) and (specified in 1.14	12.7) after (9.2) before (9.3) as	_
1.13 (12.2)	Selection of lamps and ballasts	nb otek Anbotek Anbo	_
up. rek	Lamp used according Annex B	(Lamp used see Annex 2)	_
Anbotek	Control gear if separate and not supplied	(Control gear used see Annex 2)	_
1.13 (12.3)	Endurance test	ek Aupore Aug otek	Roote
rek Anb	a) mounting-position:	As stated instruction	_
notek p	b) test temperature (°C):	50°C	_
hotek.	c) total duration (h):	240h	_
Aug.	d) supply voltage (V):	240V*1.1=264Vac	_
Anborek	d) if not equipped with control gear, constant voltage/current (V) or (A):	ek Anbotek Anbotek	_
1.13 (12.3.1d)	d) Class III luminaires powered via information techno	logy communication cable:	N/A
00, b	- voltage under normal operation (V)	Anbor Anbor	_
Aupor	- voltage under abnormal operation (V)	Aupoli Au Polek Aul	_
Pupose. K	e) luminaire ceases to operate	Aupore Ann wotek	_
Anboro	f) luminaire with constant light output function	k Aupoter Aug.	N/A
1.13 (12.3.2)	After endurance test:	potek Anborek Anborek	Panbo
OLE BE	- no part unserviceable	inhore Amborek Anbore	P
Aupolo	- luminaire not unsafe	Vupote, Vup	o ^{tek} P
Aupole	- no damage to track system	Anbores Ans	N/A
Anbotel	- marking legible	Anbotes Anbo	Ant Brek
k Anbot	- no cracks, deformation etc.	stek Anbotek Anbo	Pabo
1.13 (12.4)	Thermal test (normal operation)	(see Annex 2)	Р
1.13 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A



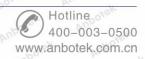




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hotek	IEC 60598-2-1	hotek Anbore An	tek
Clause	Requirement + Test	Result - Remark	Verdict
Anu and	K Albotek Anbo. A. Spatek Anbose	Ann Josek Anbotek	Anbo.
1.13 (12.6)	Thermal test (failed lamp control gear condition):	otek ambotek	N/A
1.13 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A):	upotek Anborek Anbore	
upo,	- case of abnormal conditions:	Anbo, ak hotek Anb	_
Anbore	- electronic lamp control gear	Aupois Au	N/A
	- measured winding temperature (°C): at 1,1 Un:	Anbote And hotek	
Anbor	- measured mounting surface temperature (°C) at 1,1 Un	tek Anbotek Anbotek	N/A
. ok b.,	- calculated mounting surface temperature (°C):	abotek Anbotek	N/A
upor	- track-mounted luminaires	Anbor Ar hotek Anbo	N/A
1.13 (12.6.2)	Temperature sensing control	Anbotek Anbotek A	N/A
	- case of abnormal conditions:	ek abotek Anbote	_
ok */o	- thermal link	ek shotek Anbote	N/A
'r bu	- manual reset cut-out	born Ambotek Anbotek	N/A
Pose b	- auto reset cut-out	Anbore Anbor	N/A
Anbore	- measured mounting surface temperature (°C):	Anbore. And otek or	N/A
Anbore	- track-mounted luminaires	Anbote, And Otek	N/A
1.13 (12.7)	Thermal test (failed lamp control gear in plastic lur	minaires):	N/A
1.13 (12.7.1)	Luminaire without temperature sensing control	botek Anbotek Anbotek	N/A
1.13 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W	Anbotek Anbotek Anbot	N/A
	Test method 12.7.1.1 or Annex W:	An hotek Anbotek An	
All hotek	Test according to 12.7.1.1:	k hotek Anboten	N/A
Ans	- case of abnormal conditions	Ant Lotek Anbotek	_
Amb	- Ballast failure at supply voltage (V):	ofe And otek Anbotek	_
ole, Vi	- Components retained in place after the test	inpoter Annual tek inpoter	N/A
inpolek	- Test with standard test finger after the test	Auporen Aupor	N/A
Anbotek	Test according to Annex W:	Anbotek Anbos Ass	N/A
Anbotek	- case of abnormal conditions:	r vupotek Vupor	_
k abot	- measured winding temperature (°C): at 1,1 Un:	tek anbotek Anbote	
otek an	- measured temperature of fixing point/exposed part	notek Anbotek Anbotes	_

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(°C): at 1,1 Un::



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hotek	IEC 60598-2-1	hotek Anbore An	stek
Clause	Requirement + Test	Result - Remark	Verdict
Ann	k hotek Anbo At tek anbot	And k botek	Aupo
	- calculated temperature of fixing point/exposed part (°C):	stek Anborek Anborek	_
o. bu	Ball-pressure test:	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	N/A
Anborek	- case of abnormal conditions:	anbotek Anbote A	
k upot	- measured winding temperature (°C): at 1,1 Un:	tek anbotek Anbote	_
otek Ant	- measured temperature of fixing point/exposed part (°C): at 1,1 Un	Ipotek Yupotek Yupotek	_
inbotek hotek	- calculated temperature of fixing point/exposed part (°C)	Anbotek Anbotek Anbo	_
Ans	Ball-pressure test:	See Test Table 1.15 (13.2.1)	N/A
1.13 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA	ek Anbotek Anbotek	N/A
riek Anb	- case of abnormal conditions:	potek Anbotek Anbu	_
-orek p	- Components retained in place after the test	Lotek Anbotek Anbo	N/A
up	- Test with standard test finger after the test	And otek Anbotek Anbo	N/A
1.13 (12.7.2)	Luminaire with temperature sensing control	Anbotek Anbotek An	N/A
Anbotel	- thermal link:	Yes No No	_
ek Anbr	- manual reset cut-out:	Yes No	_
-orek	- auto reset cut-out:	Yes No	_
- Otek	- case of abnormal conditions:	Aur aupotek Aupo.	_
Anborek	- highest measured temperature of fixing point/ exposed part (°C):	Anbotek Anbotek Ant	_
Anboten	Ball-pressure test::	See Test Table 1.15 (13.2.1)	N/A
ek anbo	tek Anbore Anbore Anbore	otek Anbotek Anbo	- aboli
1.14 (9)	RESISTANCE TO DUST AND MOISTURE		P
1.14 (-)	If IP > IP 20 the order of tests as specified in clause 1.	.12 atek Anbotek Anbot	P P
1.14 (9.2)	Tests for ingress of dust, solid objects and moisture:	Anbotek Anb	P
Pupo.	- classification according to IP:	IP66	
Anbo	- mounting position during test:	Vupo, tek vpotek	
Anbo,	- fixing screws tightened; torque (Nm):	0.5 And	_
otek an	- tests according to clauses:	Clause 9.2.2 and 9.2.7	

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- electric strength test afterwards



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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Anto	K Potek Vuposa by tek Vuposa	Aug. "K Polek	Anbore
k Aupo	a) no deposit in dust-proof luminaire	otek Anbore Andrek	N/A
otek Ar	b) no talcum in dust-tight luminaire	botek Anbote And	P
Anbotek	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	Anbotek Anbotek Anb	New P
Anborek	c.1) For luminaires without drain holes – no water entry	Anborek Anborek	nboteP notek
k Aupor	c.2) For luminaires with drain holes – no hazardous water entry	tek Wipotek Wipotek	N/A
otek Anl	d) no water in watertight, pressure watertight, high pressure and temperature water jet-proof or high pressure and cold water jet-proof luminaire	Anbotek Anbotek Anbotek	P _{Ant}
anbotek	e) no contact with live parts (IP 2X)	Anbotek Anbo Lek	N/A
anbotek	e) no entry into enclosure (IP 3X and IP 4X)	anbotek Anbot A	N/A
Anbore	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	ek Aupotek Vupotek	N/A
hotek And	f) no trace of water on part of lamp requiring protection from splashing water	botek Anbotek Anbotek	N/A
"tok	g) no damage of protective shield or glass envelope	And stek shotek Anbo	N/A
1.14 (9.3)	Humidity test 48 h	25°C, RH 93%	P.

1.15 (10)	INSULATION RESISTANCE AND ELECTRIC STRENG	GTH	ATP OF THE
1.15 (10.2.1)	Insulation resistance test	Dotek Anbotek Anbotek	Panbot
Anbotek	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø:	Anbotek Anbotek Anbot	_
anbotek	Insulation resistance (MΩ):	Anbotek Anbote An	aloo P'
Anbotek	SELV/PELV:	k nobotek Anbou	Potek
ek abo	- between current-carrying parts of different polarity:	100ΜΩ	Phote
potek Ar	- between current-carrying parts and mounting surface:	100ΜΩ	K Ant
Anbotek	- between current-carrying parts and metal parts of the luminaire	Anbotek Anbotek Anb	N/A
Aupotek V	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek	N/A
N VIII	- Insulation bushings as described in Section 5 :	And wotek Anbotek	N/A
oote, An	Other than SELV/PELV:	nbotes Anti-	P Anb









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	IEC 60598-2-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ann	k potek Aupo, W. Work Tupote	Ant abovek	Anbo.
Anbo,	- between live parts of different polarity:	otek Anbor Ar notek	N/A
stek Ant	- between live parts and mounting surface:	100ΜΩ	P
hotek	- between live parts and metal parts:	100ΜΩ	rek P
Anbotek	- between live parts of different polarity through action of a switch:	100ΜΩ	hbotek
Anbore. Anbore	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	tek Anbotek Anbotek	N/A
iek Anb	- Insulation bushings as described in Section 5:	botek Anbore An hotel	N/A
.15 10.2.2)	Electric strength test	Anbotek Anbotek Amb	rek P
Aupor	Dummy lamp	Aupon Ak Potek A	N/A
Anbors	Luminaires with ignitors after 24 h test	Anbore Ane wotek	AnbPek
Anboro	Luminaires with manual ignitors	ek Auporen Aug	Root
K Anbe	Test voltage (V):	botek Anbotes Anbo	Р
otek o	SELV/PELV:	Lotek Anbotek Anto	e [∦] P
stek.	- between current-carrying parts of different polarity:	500V	P
Anbotek	- between current-carrying parts and mounting surface:	500V	nnbotek
k Aupote	- between current-carrying parts and metal parts of the luminaire:	ak Anborek Anborek	N/A
otek Ar	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	Anbotek Anbotek Anbotek	N/A
rupo.	- Insulation bushings as described in Section 5 :	Anboy An botek An	N/A
Aupolo	Other than SELV/PELV:	Anbore K Ane botek	Anbore
Anboron	- between live parts of different polarity:	k Anboros Ano	N/A
Anboy	- between live parts and mounting surface:	1480V	Pob
rek an	- between live parts and metal parts:	1480V	P P
nbotek	- between live parts of different polarity through action of a switch:	1480V	otek P
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	N/A
Anboy	- Insulation bushings as described in Section 5 :	stek Aupon An Hotek	N/A
.15 (10.3)	Touch current (mA)	abotek Anbote Am	N/A
re/k	Protective conductor current (mA)	0.18mA	.o∀ P







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		IEC 60598-2-1		
Clause	Requirement + Test	abotek Anbote	Result - Remark	Verdict

1.16 (13)	.16 (13) RESISTANCE TO HEAT, FIRE AND TRACKING			
1.16 (13.2.1)	Ball-pressure test:	See Test Table 1.16 (13.2.1)	AnbPek	
1.16 (13.3.1)	Needle-flame test (10 s):	See Test Table 1.16 (13.3.1)	N/A	
1.16 (13.3.2)	Glow-wire test (650°C)	See Test Table 1.16 (13.3.2)	rel ^k P	
1.16 (13.4)	Proof tracking test (IEC 60112):	See Test Table 1.16 (13.4)	N/A	





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bu. Polek	Anbotek Anbo	IEC 60598-2-1	And hotek Anbotek	Anbo
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Verdict

1.8 (11.2)	- 52	1910	(mm) for a c u	- No.	sinusoidal volt	anes	P
Botek Anl		1910	1000		1.1.B* and 11.2	.0-	Anborok
Aupore.	Insula	Measured	Requ	ired	Measured	Required	
	tion type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:	В	2.4	0.6	11.2	2.4	1.2	11.2
Distance 2:	В	3.2	1.5	11.2	3.2	2.5	11.2
Distance 2:	R	4.6	1.5	11.2	4.6	2.5	11.2
Working volta	ge (V)	Anbor	Par-	Mupo _{ter} .	240VAC	nbotek	_
PTI	- Nuote	k Vupore	- Ar-	r Mpo _{ter}	< 600 ⊠	<u>></u> 600 □	
Pulse voltage	or <i>U</i> ⊵ if ap	oplicable (Kv)		16 ₁₁	Hale Anbo.	ek abote	
Supplementar Distance 1: LI Distance 2: L	ED+ to LE		Anbotek Am	upotek Ar	anbotek Anbo	ipotek Aup	otek p

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





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bu. Potek	Anbotek Anbo	IEC 60598-2-1	An hotek Anborek	Anbo.
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Verdict

ak Aupo,	b.i.	la Yan	oten Aup.		otek Anb	o, b.,	ak abote
1.8 (11.2)	TABLE II: C	reepage dis	tances and cl	earances	. otek	nbotek Anbo	N/A
ate/K	Minimur	n distances	(mm) for a.c.	higher than 3	0 kHz sinuso	idal voltages	
Aupo	Applicab	le part of IE0	C 61347-1 Tab	le 7 and 8* or	IEC 60664-4	Table 1 and 2	Anboro k
Distances	Insulation	Measured	Requ	uired	Measured	Requi	ired
	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:	bu.	otek Ant	oten Anbo	tek and	otek Anbo	All Mole	k Aupoter
Working vol	tage (V)		Mootek Ar	po. W.	abotek A	abore. And	otek —
Frequency is	f applicable (l	(Hz)	NAPOtek	Vipo,	botek	Anbores And	_
16.7	10,	- 17	, motek	140,	< 600 🗌	≥ 600 □	
Peak value	of the working	g voltage Û _{out}	if applicable (I	kV):	An Lotek	Anborer	P2
Supplement	ary informatio	n: Ambox	ek abot	ek Aupore	k bus	ek Anbotek	Yup.
Distance 2:	tek anb	tek Aup	ok di	otek Anb	ic. Viu	otek anbotel	Aupo
Working vol	tage (V)	A Astoria	upo. Pr	-botek p	bole. An	otek anbr	yek _
Frequency it	f applicable (l	(Hz)	Aupor	Polick :	Aupoter	Anti	nbot —
PTI	Anto	v dogsek	Mupol	Pure Parek:	< 600 🗌	≥ 600 □	- 64
Peak value	of the working	g voltage Û _{out}	if applicable (I	κV):	Aupoten	Aup	_
Supplement	ary informatio	ni _k	lek Vupos	K 20	tek Anbot	Sk Vupo.	nbotek
Distance 3:	lek Anbe	*ok	botek Ant	OLO. VILLE	otek anl	potek Anbo	ek abot
Working vol	tage (V)	100. W	- Valak	,oboher Ar	otek	Anbotek Anbo	_
Frequency is	f applicable (ł	(Hz)	100kg/c	Hopo _{te} .	Ann	oupotek Ar	100
PTI	, notek	Vupos.	br.,	hotel	< 600 🗌	≥ 600 □	Ant _
Peak value	of the working	g voltage Û _{out}	if applicable (I	kV):	Aupo	k vupotek	_
Supplement	ary informatio	n! Aupo	r Vin	otek Anbot	Ser Vupo	tek anbotek	Anbore



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



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bu. Polek	Anbotek Anbo	IEC 60598-2-1	And hotek Anbotek	Anbo
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Verdict

1.16 (13.2.1)	TABLE: Ball Pres	sure Test of Thermo	plastics	nbotek Anbotek P
Allowed imp	pression diameter	(mm):	2 Anbore	Aup. —
Object/ Part	No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)
Terminal	k Anbotek	Pupp Pek apote	125	1.16
And	otek Anbotek	Vupo, by	orek Anbore Ann	otek Anbotek Anbo
oter And	otek anbotek	Aupon by	hotek Anbotel Ar	otek Anbotek Anb
Supplementa	ary information:	lek Aupor	Anbotek Anbotek	Anbotek Anbotek

1.16 (13.3.1) TABLE	:: Needle-flame test	Anbotek Anbot	otek Anbotek	Anbotek	N/A
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (ta); (s)	Ignition of specified layer Yes/No	Duration of burning (tb) (s)	Verdict
Anbotek Anbo	te - And stek and	otek bulgo,	Pr. Polsk	Anbote Ar	o tek
- Arr	ibiter Ando	abotek Anbote	Pile Otek	Anbotek	Aupa-
- And stek	Outotek Anbo	-botek Anbore	Am	An p otek	VOpo.
Supplementary infor	mation:	hotek Anb	oter And	k upotek	Vupo.

Object/			Glow	wire test (°C)		
Part No./ Material	Manufacturer/ trademark	650		750		050	Verdict
a.o.ra.	tradomark	te	ti	te	ti	850	
_ED cover	k Aupole I	0	Aut Oren	AUDO.	3K	potek M	Pass
Plastic enclosure	otek Anbote	Ame O rek	Opotel	Anbo	- Pr	-Yorok-	Pass
Terminal	Lotek - Anbotek	0	0 000	ek Aul	- V	bu.	Pass
gnition of the spe	cified layer placed un	derneath the	test specim	en (Yes/No	o)	Ann tek	No o'









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An. Potek	Anbotek Anboatek	IEC 60598-2-1	An hotek Anbotek	Anboatek
Clause	Requirement + Test	aborek Anbore	Result - Remark	Verdict

1.16 (13.4) TABLE: Proof tra	cking test				N/A
Test voltage PTI		175 V	Aupor Au	notek Anb	_
Object/ Part No./ Material	Manufacturer/ trademark	Withstand 50 c	Verdict		
K hotek Anbote	Ann otek anbote	- Aupo	- hotek	- Anbore	Aug Otel
K hotek Anbotes	- And	Fox Vupor	ak hotel	Anbotes	AUG
ore And Lotek Anbotek	Wupan by	obotek Anb	No. No.	dek Aupoter	- bup
Supplementary information:	kek Aupor	bojek P	inpose Aug	otek nobe	tek b





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Arr. hotek	Anbotek Anb	IEC 60598-2-1	Anbotek Anbotek	Anboatek
Clause	Requirement + Test	aborek Anbore	Result - Remark	Verdict

ek anbotek	ANNE	(1: components	Anbore	All.	Anboten An	P
object/part No.	code	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity
Terminal block	Blootel	Jiang Men Krealux Electrical Appliances Co. Ltd.	T06	450V, 32A, 110°C	EN 60998-1 EN 60998-2-1	VDE 40018381
Alternative	D b	Openwise Industrial Ltd.	250	450V, 6A, 130°C	DIN EN 61984 (VDE 0627) EN 61984	VDE 40000623
Connector	B Anbotek	Shangyu Emax Lighting Electric Appliance Co., Ltd	SL-05	AC 250V, 2,5A	EN 60320-1	Test with Appliance (200401284 SHA-002)
Connector (appliance nlet)	B A	Shangyu Emax Lighting Electric Appliance Co., Ltd.	Anbotek Anbotek	AC 250V, 2,5A	EN 60320-1	Test with Appliance(s e 2004012848 HA-001)
LED driver	Anborek Anborek Anborek Anborek	Anbotek Anbotek BOKE Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	BK-BHL050- 1250AM	Input: 200- 240V, 50/60Hz, 0.35A, ta:60°C, tc:90°C; Output: 50VDC, 1000mA, 50W, for LED modules use only	EN 61347-1 EN 61347-2-13	Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek
nternal wire	B Ani	Cixi haosheng Wire & Cable Co., Ltd.	2464	105°C,300V, 22AWG	UL 758	ŬL Anbo
Alternative	D	Tongxiang Yisheng Electric Co.,Ltd.	1007	80°C,300V, 22AWG	UL758	UL/ E25549
Output wiring or LED power supply	B above	Tongxiang Yisheng Electric Co.,Ltd.	1007	80°C,300V, 24AWG	UL758	UL/ E25549
Alternative	D Anto	Cixi haosheng Wire & Cable Co., Ltd.	H05V-U H05V-K	1*0,5mm ²	DIN VDE 0281- 3	VDE/40021 89
Heat- Shrinkable ube	В	Guangzhou Kaiheng New Material Co., Ltd.	K-102	125°C, VW-1, 600V (UL/E321827)	EN60598-1	Test with appliance







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Du. Potek	Anbotek Anbo	IEC 60598-2-1	Anbotek Anbotek	Anbo
Clause	Requirement + Test	abotek Anbote	Result - Remark	Verdict

Alternative	D	Changyuan Electronics Group Co., Ltd.	CB-HFT	125°C,600V (UL/E180908)	EN60598-1	Test with appliance
LED PCB	Brek	Dongyang Bida Enterprise Electronics Co.,Ltd	A05	130°C, V-0	UL746+ EN60598-1 EN60598-2-1	UL/E304228
Alternative	D Anb	LEUCHTEK ELECTRONICS(ZHE JIANG) CO LTD	PAL-3A	130°C, V-0	UL746+ EN60598-1 EN60598-2-1	UL/E199273
LED Anbor	В	MLS Co., Ltd.	E2835UX26	IF:60mA, VF:3.8V,PD:2 00mW	IEC TR 62778	Test with appliance
Plastic enclosure	B Anbr	Shangyu Emax Lighting Electric Appliance Co.,Ltd.	PC	Thickness>0.5 mm	EN 60598-1 EN 60598-2-1	Test with appliance
Lamp cover	В	Shangyu Emax Lighting Electric Appliance Co.,Ltd.	PC Amborek	Thickness>0.5 mm	EN 60598-1 EN 60598-2-1	Test with appliance
PCB	otek B mbotek	LEUCHTEK ELECTRONICS(ZHE JIANG) CO LTD	PFR-1	130°C, V-0	EN 60598-1 EN 60598-2-1	UL/E199273

The codes above have the following meaning:

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



Hotline



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Pu., Potek	Anboten Anbo	IEC 60598-2-1	Anbotek Anbotek	Anboatek
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Verdict

ANNEX 2	TABLE: Thermal tests of Section 12				
abotek	Type reference	DR-TPL050- FG5XPM —			
abotek	Lamp used:	LED botek Anbone Am -	_		
An botek	Lamp control gear used	LED driver			
r Pos	Mounting position of luminaire	Normal mounting			
Nr.	Supply wattage (W):	50.37W –			
or bu	Supply current (A)	0.211A –			
'upote,	Calculated power factor	0.972			
Anborek	Temperatures in test 1 - 4 below are corrected for ta (°C):	40°C —	_		
Par Spoli	- abnormal operating mode	ok abotek Anbore			
1.13 (12.4)	- test 1: rated voltage				
pojek bir	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	1.06×240=254.4V	_		
Aupotek	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage	Anbotek Anbotek Ar	_		
Anbore	Through wiring or looping-in wiring loaded by a current of A during the test	Anbotek Anbotek -	_		
1.13 (12.5)	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current or 130/150% of rated input voltage	botek Anbotek Anbotek			

Temperature measurements (°C)

Part	Amabiant	Ambient Cl. 12.4 – normal					Cl. 12.5 – abnormal	
	Ambient	test 1	test 2	test 3	limit	test 4	limit	
Terminal block	40	-Anbote	46.8	*ek-	125	Aupo,	bu	
Internal wire	40	ok Aup	63.2	*UPO	105	A-Doro	- <u>- b</u>	
Tc for LED driver	40	01ek	67.4	Anbo.	90	Aupo	- PU	
Connector for LED driver	40	otek.	51.6	Vupo,	Ref.	rek An	boyer	
Output wire for LED driver	40	And -tek	55.3	- Pupor	105	notek-	Aupoter.	
Plastic enclosure	40	Vupo.	48.9	ek Anb	Ref.	"OLEK	Antotek	
Metal enclosure	40	Vupo.	47.3	ootek P	Ref.	Pur - Otek	-nbote	
Input wire for LED	40,000	'r Tup.	58.1	-polok	105	VU.	k vup	
LED Anborer Anb	40	lotek by	84.6	Pr. Polek	Ref.	And	rek	









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			IEC 60	598-2-1				
Clause	Requirement +	Test	abotek	Anbore	Result -	Remark	anbotek	Verdict
YUDO -K	notek	Anbor	p. rek	anbo	Jee. V	Up	notek	Aupo.
LED cover		40	topo.	48.2	potek	90	And	-nbot
Mounting surfa	ace	40	Pupo	44.5	-botale	90	PU.P.	. A.
Supplementary	y information:	ek nbo	iek Vi	'po,	Notek Notek	Aupore	And	rek.





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Motek Motek	Anbotek Anbo	IEC 60598-2-1	An hotek Anboten	Anbo
Clause	Requirement + Test	abotek Anbote	Result - Remark	Verdict

ANNEX 3	Screw terminals (part of the luminaire)	nt
(14)	SCREW TERMINALS	N/A
(14.2)	Type of terminal:	_
Pur Polek	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
nbote	Cross-sectional area (mm²):	a —
(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):	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
motel D	Torque (Nm)	N/A
(14.4.7)	Between metal surfaces	N/A
Yun Viek	Lug terminal	N/A
AUDO	Mantle terminal	N/A
Anbo	Pull test; pull (N):	N/A
(14.4.8)	Without undue damage	N/A





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Pu., Potek	Anbotek Anbo	IEC 60598-2-1	An hotek	Anbotek	Anboatek
Clause	Requirement + Test	aborek Anbore	Result - Remar	k Anbotek	Verdict

ANNEX 4	Screwless terminals (part of the luminaire)		N/A
(15)	SCREWLESS TERMINALS	unboten Anbo ek abotel	N/A
(15.2)	Type of terminal:	Anborek Anbore An	_
abotek	Rated current (A):	32A	_
(15.3.1)	Material	Anbotek Anbote	N/A
(15.3.2)	Clamping	ak shotek Anboten	N/A
(15.3.3)	Stop	ok botek Anbotek	N/A
(15.3.4)	Unprepared conductors	both Anbotek Anbotes	N/A
(15.3.5)	Pressure on insulating material	Anbores Anbo	N/A
(15.3.6)	Clear connection method	Anbores Anbo	N/A
(15.3.7)	Clamping independently	Aupoter Aupo	N/A
(15.3.8)	Fixed in position	ek Anborek Anbo.	N/A
(15.3.10)	Conductor size	otek Anbotek Anbox	N/A
rek	Type of conductor	otek Anbotek Anbote	N/A
(15.5)	Terminals and connections for internal wiring	Anbo tek nbotek Anbo	N/A
(15.5.1)	Mechanical tests	Anbo. An abotek An	N/A
(15.5.1.1.1)	Pull test spring-type terminals (4 N, 4 samples):	Anbore Am botok	N/A
(15.5.1.1.2)	Pull test pin or tab terminals (4 N, 4 samples):	3k Aupon ok Puntek	N/A
ek Anbo	Insertion force not exceeding 50 N	otek Anbore K Mine	N/A
(15.5.1.2)	Permanent connections: pull-off test (20 N)	abotek Anbote Ans	N/A
(15.5.2)	Electrical tests	hotek Anbote And	N/A
An. Potek	Voltage drop (mV) after 1 h (4 samples):	An hotek Anboten An	N/A
Ans	Voltage drop of two inseparable joints	k kotek Anbotek	N/A
And	Number of cycles:	And otek anbotek	
otek And	Voltage drop (mV) after 10th alt. 25th cycle (4 samples)	hotek Anbotek Anbotek	N/A
Anbotek V	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	Anbotek Anbotek Anb	N/A
Anborek	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples)	Anbotek Anbotek	N/A
k Wupot	After ageing, voltage drop (mV) after 50th alt. 100th cycle (4 samples)	otek Anbotek Anbotes	N/A
(15.6)	Terminals and connections for external wiring	abotek Anbore Am	N/A
(15.6.1)	Conductors	kotek Anbores Anb	N/A







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hotek	IEC 60598-2-1	botek Anbote Ar	-tek
Clause	Requirement + Test	Result - Remark	Verdict
ALIBO	k hotek Anbore Ant tek anbore	Ante ok botek	Anbor
Anbor	Terminal size and rating	ortek Anbore Anti-	N/A
15.6.2	Mechanical tests	botek Anbote And	N/A
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N):	Anbotek Anbotek Anb	N/A
(15.6.2.2)	Pull test pin or tab terminals (4 samples); pull (N):	Anborek Anborek	N/A
(15.6.3)	Electrical tests	ak hotek Anbote	N/A
Pierr	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1	die View Jek "Upotek	N/A





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Vi. Potek	Anboren Anbo	IEC 60598-2-1	Anbotek Anbotek	Anboatek
Clause	Requirement + Test	anborek Anbore	Result - Remark	Verdict

(15.6.3.1)	Nek	Anbotek	. Pup	oter	VUP.	<u>, </u>	hotek "	Anbo.	otek	anbotek	N/A
(15.6.3.2)	TABI	LE: Contac	t resista	nce test	/ Heating	tests					N/A
inpose ok	Volta	ge drop (m	V) after 1	hAnba	ek.	upotek	Anbo	. Va	notek	Anb	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	1.4	1.3	1.5	1.2	1.4	1.3	1.2	1.4	1.3	1.3
Anbor	2,-	Voltage dr	op of two	insepara	able joints	Pre	hotek	Anbore	b.	tek.	abo
tek an	otek	Voltage dr	op after 1	0th alt. 2	25th cycle	P	in otek	anb	otek	Aupo	
rek	nbotek	Max. allow	ed voltag	je drop (r	nV)	: 2	22.5	ek ,	nbotek	Aupor	_
terminal	pe.	1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	potsk	Pupo.	bu.	otek	Anbore	PU,	. vek	abo	ek bi	100,
Vupo.	/r	Voltage dr	op after 5	0th alt. 1	00th cycl	e _{Anbo}	Ver.	Aupo.	, ps	potek	Aupole
Anboro	40.	Max. allow	ed voltag	je drop (r	mV)	:	potek	Aupor	rok by	spotek	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	Pr.	otek	Anborer	Ano	-xeV	alpore	E P.	100,	by.	ex
abotek	Anbor	Continued	ageing: \	oltage d	rop after	10th alt.	25th cyc	le	Aupore	r bu	otek
h. botek	An	Max. allow	ed voltag	je drop (r	mV)	Vupo.	ok p.	abotek	Anbor	P.C.	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	Anboren	PUP	*ek	aborek	PL	100°	bi.	ek.	anboten	And
Pur.	· otek	Continued	ageing: \	oltage d	rop after	50th alt.	100th cy	cle	-otek	anborek	PUL
poter A	Un	Max. allow	ed voltag	je drop (r	mV)	botek.	Anbore	b.c.	otek.	Anbot	_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	rek.	anbotek	Anb	010	bu.	ek p	100ter	AUD	*ek	nbotek
Anbotek		Yup.	A NOW	SK b	upole	Nun	otek	Anbotek	AUG	·eX	aborel
Supplement	ary info	ormation:	c Au	otek Lk	Anbote	sk Vu	Anbotek	Anbot	ek I	'upo,	Anb.



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	IEC 62031		
Clause	Requirement + Test	Result - Remark	Verdic
Ann	ak hotek Anbo h tek an	Doles Will OK Potek	Anbo
4	GENERAL REQUIREMENTS		_{Arl}
4.4	Integral modules tested assembled in the luminaire	Anbotek Anbotek Anb	P P
4.5	Independent modules complies with requirements in IEC 60598-1	Anborek Anborek A	boteN botek
potek	Anbore Arm Otek Anborek Anbor	ek stotek Anbore	bu.
5	GENERAL TEST REQUIREMENTS		Pupp
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	N ^{Ant}
hotek	General conditions for tests in Annex A	(see Annex A)	ate/P
hotek	Anbores Anbores Anbores	k hotek Anbotes Ar	, tek
6	CLASSIFICATION	, AV. , V	YUPO,
bu.	Built-in module	: Yes 🗌 No 🛛	_
Aribo	Independent module	: Yes No	
leg Vu	Integral module	: Yes 🛛 No 🗌	_
botek	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.	Anbotek Anbotek An	—
Pur Potek	Anbores Anb	ak botek Anbotet	Ann
7	MARKING		NA
Aur	Requirements not applicable to the evaluated pro	duct.	-40pc
ek Anb	tek aborek Anbores Antonek	Anborer Anbor	P.
8	TERMINALS	. 65	otek-
Nobotek	Screw terminals according section 14 of IEC 6059	98-1: Anbotek Anbov	, notN
nbotek	Separately approved; component list	(see Annex 2)	Niek
Al. abotel	Part of the luminaire	(see Annex 3)	N
K No	Screwless terminals according section 15 of IEC	60598-1:	N
D. D.	Separately approved; component list	(see Annex 2)	N PS
ole b	Part of the luminaire	(see Annex 4)	N
Auporer	Connectors according IEC 60838-2-2:	Anbores Anti-	nboteN
Anbore	Separately approved; component list	(see Annex 2)	N _{ek}







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An hotek	Anborek Anbo	IEC 62031	Anbotek Anbotek	Anbaratek
Clause	Requirement + Test	anborek Anbore	Result - Remark	Verdict

9 (9)	PROVISION FOR PROTECTIVE EARTHING		N N
stek or	Requirements not applicable to the evaluated product.	otek Anbo	- -

10 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS			
Aupo.	Requirements not applicable to the evaluated product.	Aupo. ok Pr. Potek	Al-bore	

11 (11)	MOISTURE RESISTANCE AND INSULATION		ek
nbotek	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):		
Anbore	For basic insulation \geq 2 M Ω :	100ΜΩ	Aup de
Vupor	For double or reinforced insulation \geq 4 M Ω :	sk Aupo, rek spotek	Mose
lek Aupo	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	Anbotek Anbotek Anbotek	N _V up,

12 (12)	ELECTRIC STRENGTH		abotok
Anbotek	Immediately after clause 11 electric strength test for 1 min	Anbotek Anbotek	Potek Anbotek
Anbo	Basic insulation for SELV, test voltage 500 V	tek Anbotek	Rabo
ek Anbe	Working voltage ≤ 50 V, test voltage 500 V	botek Anbo tek nbote	K N ps
DOJOK A	Working voltage > 50 V ≤ 1000 V, test voltage (V):	Anbotek Anbot kek ab	ote ^K P
nbotek	Basic insulation, 2U + 1000 V	Anbotek Anbot An	N.
abotek	Supplementary insulation, 2U + 1000 V	anbotek Anbot	Prek
abotek	Double or reinforced insulation, 4U + 2000 V	ek abotek Anboro	N
Y 700	No flashover or breakdown	ak botek Anbote	P
otek An	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	Anbotek Anbotek Anbote	N An

13 (14)	FAULT CONDITIONS		Aupole
- (14)	When operated under fault conditions the control	lgear:	Noore
anbore Anbore	- does not emit flames or molten material	Hotek Anbore K Ant	dria N
otek Anb	- does not produce flammable gases	botek Anbore And	o⊬ N







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hotek	IEC 62031	k botek Anbore A	ntek.
Clause	Requirement + Test	Result - Remark	Verdic
And	e apotek Anbo A notek Anb	ote. And ack apotek	Anbo
ek Aupo,	- protection against accidental contact not impaired	spotek Aupotek Aupotek	N Ari
	Thermally protected controlgear does not exceed the marked temperature value	Anbotek Anbotek Anbo	N Joo ^{tek}
Anbotek Anbotek	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	Anbore Anbore
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	(see appended table)	NAM' botek
Anbotek Anbotek	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3	ek Anbotek Anbotek	Anbe N ^k
· (14.2)	Short-circuit or interruption of semiconductor devices	(see appended table)	N
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N N
(14.4)	Short-circuit across electrolytic capacitors	(see appended table)	N
(14.5)	After the tests has been carried out on three samp	les:	AUD N
VIII.	The insulation resistance \geq 1 M Ω :	Ann otek Anbotek	V.N.
VUD.	No flammable gases	oron Aribotek	Nup
V. Vipo	No accessible parts have become live	unbotes Anto	N
otek Yu	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	Anbotek Anbotek Ant	ote ^k N
- (14.6)	Relevant fault condition tests with high-power supply	Ambotek Ambotek	Anbotel
13.2 _{Am} botton	Overpower condition	otek Anbore. And	Pabo
Anbote	Module withstands overpower condition >15 min.	hotek Anboten Anbo	Р
stek Aup	Module with automatic protective device or power limiter, test performed 15 min. at limit.	Anbotek Anbotek Anb	N N
nbole.	No fire, smoke or flammable gas is produced	Anbores And	A Pod
Anbotek	Molten material does not ignite tissue paper,	Anbotek Anbo	AntBiek



spread below the module







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		IEC 620)31			
Clause	Requirement + Test	aborek	Aupolo	Result - Remark	Anbotek	Verdict
Vun	s hotek Anbo	T. Tek	, nboth	Ann	hotek	Anbo
15	CONSTRUCTION					Anb
de Yes	Wood cotton silk paper and	d similar fibrou	IS P	rek above	DUL	v P

material not used as insulation

16 (16)	CREEPAGE DISTANCES AND CLEARANCES		anbatek
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	ek Anbotek Ambotek	Photel
N. Pre-	Insulating lining of metallic enclosures	both Annualek Anbotes	PAND
ologek Vi	Basic insulation on printed boards tested according to clause 14	Anbotek Ambotek Anbot	ek P A
Anbotek	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16	ek Anbotek Anbotek	Anborek aborek
Anbor	Creepage distances not less than minimum clearance	potek Anbotek Anbotek	P
16 (-)	Conductive accessible parts in compliance with applicable parts of IEC 60598-1	Anbotek Anbotek Anbot	N A

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	yupo,
Anbotek	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	Р

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		-/- by
- (18.1)	Ball-pressure test:	See Test Table 18 (18.1)	N
- (18.3)	Glow-wire test (650°C):	See Test Table 18 (18.3)	nboiN .
- (18.4)	Needle-flame test (10 s):	See Test Table 18 (18.4)	An Wree
- (18.5)	Proof tracking test	See Test Table 18 (18.5)	Nopot

19 (19)	RESISTANCE TO CORROSION				tek
hotek	- test according 4.18.1 of IEC 60598-1	hotek.	Anbore	ALIE	N
An	- adequate varnish on the outer surface	Arr. Otek	Anboten	b,	Nak

20	INFORMATION FOR LUMINAIRE DESIGN				N _{po} .
Aup	Information in Annex D (informative)	Anboten	Anbo	nnbotek	_





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bur Potek	Anbotek Anbo	IEC 62031	hotek	Anboret	Anbo
Clause	Requirement + Test	nbotek Anbote	Result - Remark	Anbotek	Verdict

21	HEAT MANAGEMENT	60
21.1	General Tek Anbotek Anbotek Anbotek Anbotek Anbotek	N N
hotek	Exchangeability is safeguarded by cap or base	And
21.2	Heat-conducting foil and paste	MIDO. N.
Anbotek	Heat-conducting foil delivered with the module if necessary	anbot

22	PHOTOBIOLOGICAL SAFETY
22.1	UV radiation N
up. rek	Luminous radiation not exceed 2mW/klm N
22.2	Blue light hazard
Vupo	Assessed according to IEC TR 62778
22.3 M	Infrared radiation N
rek Anb	Requirements for infrared radiation when required N

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

	ANNEX 1 - SELV-operated LED modules	e or
corek Ant	SELV-operated LED modules in compliance with Annex I of IEC 61347-2-13	*ek N



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Aupo.	nbotek	Aupola	EN	62493	key bu	oo.	nborek	Anbore
Clause	Requirement	+ Test	r Vu	iek Ar	poiek	Result - R	emark	Verdict

Attachment 2: EN 62493:2015

4.2	APPLIC	CATION OF LIMITS (Test su	ımmary)			_
Anboten	Specifi	c absorption rate (SAR)	r Wolek	Anboten	Yun **ek	abotek
a) Anborer	Disturba	15 clause 4.3.1 ance voltage mains terminals – 30 MHz	Anbotek Anbotek	*) Anbol	botek Anbotek	Anborel Anbor
b)	Radiate	15 clause 4.4 d electromagnetic disturban z – 30 MHz	ices Anborek	Anbotek	Anbotek Anb	otek P A
c)	Radiate	15 clause 4.4.2 d electromagnetic disturband : – 300 MHz	otek Ces nbotek Anbotek	*)	otek Anbotek	Anbotek
*)	☐ Only	separate Test Report for me measurement of d) below. In this case this test report do	See measurement	results belo	W. Marek Anbo	obstek Ar
anbotek	Induce	d current density	And	nbotek	Aupor. A	hoteP.
d) Anbotek	2000	d current density – 10 MHz	stek Anbetek	See meas below	urement results	Anborek
4.2.d	INDUCED CURRENT DENSITY					
an An	Power s	supply system utilised:	Ans hotek Ant	oter	rupo rek rupo	rel -An
potek	1.65	halek pabolo		AC230V	Anbo	botek_
nbotek	Freque	ncy	Nun.	50/60Hz	Anbo. A	botek
anbotek	Environ	mental conditions:	ter Aug.	abotel	Notok	
, abote	Temper	ature	poter Pupo	25°C	stek Anbore	be.
/r ~/c	Humidit	y	Anbotek Anbox	58% R.H.	botek Anbotes	bu.
Par.	EuT op	eration mode:	unpotek Aup	o. b	abotek Anbot	buy
lo _{to}	⊠ Norr	mal operation	anbotek	upore	hotek An	polet
Anboier	☐ Othe	Other operation:				
4.2.d	MEASU	MEASUREMENT RESULTS				
Anbore	Measur	Measuring with "Van der Hoofden" test head				
Location o	f EuT	Measuring distance	Result (F)		Limit (F)	Verdict
Front of Eu	(Tooker	50 cm	0,11	hotel	0,85	P P
		10.1	-017			







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Aupore	Andotek	Anborok Ar	EN 62493	Anbore An	k Aupoter
Clause	Requirem	ent + Test	Ans work Anborek	Result - Remark	Verdict
anbo.	b.	tek supote.	Pun K Pol	ek Aupon by	siek anbo
Side of EuT	Vup.	50 cm	0,11	0,85	Andre K P





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Aupo.	abotek Anbote	IEC TR 62778	Anbo. sek abotek	Aupolo.
Clause	Requirement + Test	And Lotek Anborek	Result - Remark	Verdict

Attachment 3: IEC TR 62778: 2014

	IEC	TR 62778:2014		
Clause	Requirement + Test	tek abotek	Result – Remark	Verdict
5 Anbore	Spectrum, colour temperature, and I	blue light hazard	ek Anbore And	Pabor
5.1 Anbs	Calculation of blue light hazard quar photometric quantities from emission		botek Anbotek Anbo	ek P Anh
5.2	Luminance and illuminance regimes tmax values below 100s	that give rise to	Anbotek Anbotek Ar	oote P
7	MEASUREMENT INFORMATION F	LOW		Prek Hotek
7.1 botek	Basic flow	Joseph Anbu	ak abotek Anboro	ATT P. ONE
by,	'Law of conservation of luminance' a	pplied	ok hotek Anbotes	P
r bu	Use of only true luminance/radiance	values	ore Aupotek Aupot	P Ant
P.	In case of luminaire:	botek	rupoten Plus	otek P
	The light source is operated in the lust similar conditions as when tested as		Anbotek Anbotek	Aupotek Vapotek
Anbotek	In case Ethr value for RG2 was estab value was derived from angular light		Anbotek Anbotek	Anbotel
7.2 mbot	Conditions for the radiance measure	ment	otek Anbotek Anbo	K P nb
K An	Standard condition applied (200mm distance, 0,011rad field of v	iew)	Opotek Vupotey Vupo	otek P
O. A.	Non-standard condition applied	Sporek	Aupole K Pur	N/A
7.3	Special cases (I): Replacement by a	lamp or LED mode	ule of another type	N/A
Anboyen	Light source is a white light source	ak hotel	Anborek Anbo	N/A
Anbore	Evaluation done based on highest lui	minance	lek Anbotet Anbo	N/A
ant	Evaluation done based on CCT value	e Anborat	notek Anbotek Anbo.	N/A
7.4	Special cases (II): Arrays and cluster	s of primary light s	sources	N/A
hotek	LED package is evaluated as	ek abotek	⊠RG0 unlimited ☐ RG1 unlimited	nbotek anbotek
Anboren	Ethr of LED package applies to array	ok hotek	Aupoien Pupa	N/A
8	RISK GROUP CLASSIFICATION	457	- N	Panbot
anb	Risk group achieved:	Aupo. A.	sotek Anbore. And	P
ek n	Risk Group 0 unlimited	Aupoles Ar	work Anborek Anbr	P
10.	Risk Group 1 unlimited	Anborok	And sk shotek A	N/A







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Anbord	Anbotek Anbot	b b	IEC TR 62	2778	Anboy	An aborek	Anboren	
Clause	Requirement + Tes	ore.	And	Anborek	Result - R	Remark	Verdict	0

IEC TR 62778:2014					
Clause	Requirement + Test	Result – Remark	Verdict		
5 hotek	Spectrum, colour temperature, and blue light hazard	Anbotek Anbotek	Anbu Prek		
5.1	Calculation of blue light hazard quantities and photometric quantities from emission spectra	ek Anbotek Anbotek	Anbotel		
5.2 M	Luminance and illuminance regimes that give rise to tmax values below 100s	botek Anborek Anbo	ek P Anbo		
potek	- E _{thr}	Anbotek Anbotek Ar	N/A		

Risk Group Number	Group Number Risk Group Name		Blue light hazard L _B (W/m ² .sr)	
RG0	Exempt	>10000	<100	
RG1	Low Risk	100-10000	100-10000	
RG2	Moderate Risk	0.25-100	10000-4000000	
RG3	High Risk	<0.25	>400000	

IEC TR 62778:2014						
Clause	Requirement + Test	hotek	Anboten	Result – Remark	Verdict	
TABLE	SPECTRORADIOMETRI	C MEASURE	MENT		inpole P	
Tested m	odel number	k Ann	Anbote Anbote	DR-TPL050- FG5XPM	Anbore	
Tested vo	oltage	Ville Pro-	itek Anb	230VAC	Y VIDO	
Tested cu	urrent	A Yayada	'pole l	0.210A	rek And	
Tested fre	equency	n motek	· Pupote,	And Andrek Andrek An	po, otek	
Ambient t	emperature	Arbotek	Anbor	24.3°C	Andabotek	
Measurer	ment distance	Pupoter	Aug -p	100mm	An Anbotek	
Source si	ze	tek Anbo	riel Dir	Non-small source ☐ Small	source	
Field of	otek Anbotek Ar	potek Ar	loo hatek	☐ 100 mrad⊠11 mrad☐ 1.7	mrad	
Blue light	hazard radiance (L _B)	Anbore	Pr. Potek	22.4W/(m ² •sr)		





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Anbors	Proposek Vuposer	IEC TR 62778	Vupor Vin Vipotek	Aupoton
Clause	Requirement + Test	And otek Anbotek	Result - Remark	Verdict

IEC TR 62778:2014							
Clause	Requirement + Test	Yupo.	Result – Remark	Verdict			
Blue light	hazard irradiance	Aupor	W/m ²	Antotek			
Luminan	ce (L)	Anb. b	cd/m ²				
Illuminan	ce (E _{thr}):	lek bi	nbotek Anbotek Anbo	notek Anbi			
Calculate	e distance (d _{min}):	notek	Anbotek Arbons An	abotek A			

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 document:







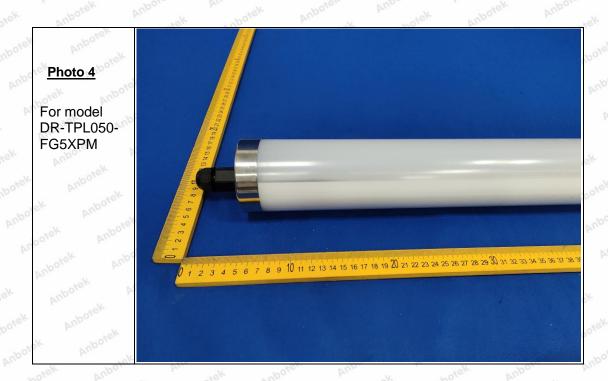






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Photo 9

For model DR-TPL050-FG5XPM



Photo 10

For model DR-TPL050-FG5XPM



END REPORT

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