

## **TEST REPORT**

**Reference No.** ..... : WTU22N10211826L

Applicant.....: LUMATEK LTD.

Address ...... : Ewropa Business centre Level 3 – 701 Dun Karm Street Birkirkara

BKR 9034 MALTA

Manufacturer : Same as applicant

Address : Same as applicant

Product Name.....: Lumatek Control Panel

Model No.....: LUMM0019

Test specification.....: EN 61347-1:2015+A1:2021

EN 61347-2-11:2001+A1:2019

EN 62493:2015

Date of Receipt sample .... : 2022-10-25

Date of Test...... : 2022-10-25 to 2022-11-29

Date of Issue..... : 2022-12-08

**Test Report Form No. ......** : IEC61347\_2\_11F

Test Result.....: Pass

#### Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

### Prepared By:

### Waltek Testing Group (Ningbo) Co., Ltd.

Address: Zone 3, 1/F., No.6, Building 011; Zone 1, 5/F., No.1, Building 007, No.1177, Lingyun Road, Ningbo Hi-Tech Zone, Yinzhou District, Ningbo, Zhejiang, China

Tel: +86-574-8749 3888 Fax: +86-574-8386 8018 Email: nb@waltek.com.cn

Tested by:

Dorren Wang / Project Engineer

Approved by:

Jianzhong Mao / Manager



## **TEST REPORT IEC 61347-2-11**

# Part 2: Particular requirements Section 11: Miscellaneous electronic circuits used with luminaires

Report Number. ...... WTU22N10211826L

Date of issue ...... See cover page

Total number of pages ...... 36 pages

Name of Testing Laboratory

Waltek Testing Group (Ningbo) Co., Ltd.

preparing the Report.....

.: See cover page

Applicant's name....:

Address .....: See cover page

Test specification:

Standard ...... IEC 61347-2-11:2001, AMD1:2017 used in conjunction with

IEC 61347-1:2015, AMD1:2017

Test procedure ...... Test report

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

Test Report Form No...... IEC61347\_2\_11F

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

Master TRF...... Dated 2018-11-09

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

#### General disclaimer:

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

This report shall not be reproduced, except in full, without the written approval of the Issuing CB Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report.



Test item description:	Miscel	laneous electronic circuits	s used with luminaires
Trade Mark:	LU	MATEK	
Manufacturer:	See co	over page	
Model/Type reference:	LUMM0019		
Ratings:	Input 1 Output Contro	supply: 00-240V~, 50/60Hz, 0.45 5VDC, 2A, 10W; I Panel: 2A, 10W, Class III, IP20,	
Responsible Testing Laboratory (as a	applical	ole), testing procedure	and testing location(s):
	NITE .	Waltek Testing Group (I	Ningbo) Co., Ltd.
Testing location/ address	ree Jun	Building 007, No.1177,	ding 011; Zone 1, 5/F., No.1, Lingyun Road, Ningbo Hi-Tech Ningbo, Zhejiang, China
Tested by (name, function, signature)	): ;<	See cover page	m m m
Approved by (name, function, signatu	ure) :	See cover page	TEX ALTER OLITER OFFICE
Testing procedure: CTF Stage 1	:/5	7	A A A A
Testing location/ address		ALTER SLITE FOR	MELLE MELLEN TO
Tested by (name, function, signature)	):	cet itet citer in	The wall was with
Approved by (name, function, signatu	ure) :	24, 20, 20,	e it let that the
Testing procedure: CTF Stage 2	المالية المالية	we we we	24. 24. a.
Testing location/ address	-0,	at at at	THE STEE WITH WITH SMITH
and the state of t	"TER	intile while whi	me me me
Tested by (name + signature)	-	the set	THE STIFF WITH WITH WALL
Witnessed by (name, function, signat	<u> </u>	in mr. Mr. W	
Approved by (name, function, signatu	ure) :	t it it	er ite att att ant wat
☐ Testing procedure: CTF Stage 3	: ap	711 21	- LEK TEK TEK STEK
☐ Testing procedure: CTF Stage 4	: JE	nite intil white	mer mer me m
Testing location/ address	ARK TEK	Tex itex wifex	Writer writer writer my
Tested by (name, function, signature)	):	10, 20, 20,	at at all all of
Witnessed by (name, function, signat	ure).:	TER OLITER WITER ON	THE MUTE MUTE MUTE AND
Approved by (name, function, signatu		7 × 3	t the text the title
Supervised by (name, function, signa	ture) :	ALTER WITE WAL	me me m. n.



#### Page 4 of 36

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

- Attachment 1: Acceptance test report for IEC 60598-1:2014+A1:2017 (20 pages)
- Attachment 2: Photo documentation (9 pages)

#### Summary of testing:

#### Tests performed (name of test and test clause):

- 1. All tests were conducted with resistive load.
- According to the standard IEC 62493:2015, the DUT belongs to unintentional radiating part of lighting equipment. Due to the reason that the DUT fulfils the inherent-compliance condition " It is an independent auxiliary", the DUT is deemed to comply with requirements of this standard without testing.
- 3. Only the most unfavourable results are recorded in this report.

#### **Testing location:**

Waltek Testing Group (Ningbo) Co., Ltd.
Zone 3, 1/F., No.6, Building 011; Zone 1, 5/F., No.1,
Building 007, No.1177, Lingyun Road, Ningbo HiTech Zone, Yinzhou District, Ningbo, Zhejiang,
China

#### **Summary of compliance with National Differences:**

#### List of countries addressed:

**EU** Group

The Internal Standards IEC 61347-1:2015+A1:2017, IEC 61347-2-11:2001+A1:2017, IEC 60598-1:2014+A1:2017 and IEC 62493:2015 were approved by CENELEC as European Standards without any modification.

☐ The product fulfils the requirements of EN 61347-1:2015+A1:2021, EN 61347-2-11:2001+A1:2019, EN 60598-1:2015+A1:2018 and EN 62493:2015.



#### 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.

## LUMATEK

Model: LUMM0019

Input: 5VDC, 2A, 10W

ta:40°C













#### Remark:

- On the exterior surface after installation;
- The height of graphical symbols shall not be less than 5 mm, the height of letters and numerals shall 2. not be less than 2 mm, and the height of "WEEE" shall not be less than 7 mm;
- Manufacturer or/and his importer shall ensure product bears label requirements in article 6 and article 3. 8 of the 2014/35/EU relate to name, registered trade name or registered trade mark, a single contact postal address, product type, batch or serial number or other element allowing product into EU market;





Test item particulars:	
Classification of installation and use:	Independent, indoor use
Supply Connection:	Power supply
Possible test case verdicts:	a at the first the street out
- 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:	A SE SEE THE LIFE STEE MILE.
Date of receipt of test item:	See cover page
Date (s) of performance of tests:	See cover page
General remarks:	The state of
"(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 use	ne report.
"(See appended table)" refers to a table appended to the	ne report.  sed as the decimal separator.  in IEC 61347-1
"(See appended table)" refers to a table appended to the Throughout this report a comma / \( \subseteq \) point is use Clause numbers between brackets refer to clauses Manufacturer's Declaration per sub-clause 4.2.5 of The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	sed as the decimal separator. in IEC 61347-1 IECEE 02:  Yes Not applicable
"(See appended table)" refers to a table appended to the Throughout this report a comma / \infty point is use.  Clause numbers between brackets refer to clauses.  Manufacturer's Declaration per sub-clause 4.2.5 of The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has	sed as the decimal separator. in IEC 61347-1 IECEE 02:  Yes Not applicable
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"(See appended table)" refers to a table appended to the Throughout this report a comma / point is use. Clause numbers between brackets refer to clauses. Manufacturer's Declaration per sub-clause 4.2.5 of The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided	sed as the decimal separator.  in IEC 61347-1  IECEE 02:  Yes  Not applicable  he General product information section.
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Page 7 of 36

#### Report No. WTU22N10211826L

TEN SOLITE	IEC 61347-2-11		
Clause	Requirement + Test	Result - Remark	Verdict
4 (4)	GENERAL REQUIREMENTS	<u>- 18 18 58 5</u>	Р
- (4)	Insulation materials for double or reinforced insulation according requirements in Annex N of IEC 61347-1	(see Annex N)	N/A
- (4)	Compliance of independent controlgear enclosure with IEC 60598-1	SEE WALTER WALTER WALLE	W PW
- (4)	Built-in magnetic ballast with double or reinforced insulation comply with Annex I of IEC 61347-1	WALLEY WALLEY WALLEY WA	N/A
- (4)	Built-in electronic controlgear with double or reinforced insulation comply with Annex O of IEC 61347-1	(see Annex O)	N/A
- (4)	SELV controlgear comply with Annex L of IEC 61347-1	(see Annex L)	N/A
LITER WALTE	munit munit munitary	TER STER STER WITEE I	ncies whi
6 (6)	CLASSIFICATION		Р
MULTER	Built-in controlgear	Yes 🗌 No 🖂	_
. A	Independent controlgear:	Yes 🛛 No 🗌	ι —
Mr. M.	Integral controlgear:	Yes No 🖂	_
at A			,et
7 (7)	MARKING		P
7.1 (7.1)	Mandatory markings	14 7EF	P
110	a) mark of origin	"WELL MUT MIT AN	Р
t JEE	b) model number or type reference	at at the	P
Tilly A	d) correlation between interchangeable parts and controlgear marked	Mary Mary Mary Mary	N/A
m m	e) rated supply voltage (V)	Life when when when	Р
JEK SITE	supply frequency (Hz)	at let let let	N/A
. 70	supply current (A)	MULL ME ME A	Р
EX OLIER	f) earthing symbol, if applicable	CENTER SEE SEE	N/A
1,	k) wiring diagram	See photo documentation	Р
in liter of	I) value of t <sub>c</sub>	TEX STEX STEX WITH	N/A
9 4	s) SELV symbol	m m m	N/A
7.1 (-)	- control terminals identified, if applicable	TEX SLIER WITER WITER	Pur
A 25	- t <sub>a</sub> alternative to t <sub>c</sub> if independent	Au. 20 2	Р
7.1 (7.2)	Marking durable and legible	EX CLIER WILL MULTER W	P
et JEH	Rubbing 15 s water, 15 s petroleum; marking	at at all a	PER

Information to be provided, if applicable

7.2 (7.1)

### Page 8 of 36

IEC 61347-2-11				
Clause	Requirement + Test	Result - Remark	Verdict	
TEX .	h) declaration of protection against accidental contact	t it it it	N/A	
my m	i) cross-section of conductors (mm²)	THE WILL MUST MUST	N/A	
TEX ITE	j) number, type and wattage of lamp(s)	Details see user manual	JEN P	
7.1 (7.2)	Marking durable and legible	ing municipality was any	P	
IEK WALTER	Rubbing 15 s water, 15 s petroleum; marking legible	TE MITER WALTER WALTER ON	IT PIT	

8 (10)	PROTECTION AGAINST ACCIDENTAL CONTAC	T WITH LIVE PARTS	<i>∞</i> P
- (10.1)	Controlgear protected against accidental contact with live parts	LIEF WILEY WALLEY WALL	Р
- (A2)	Voltage measured with 50 $k\Omega$	(see Annex A)	P
- (A3)	Voltage > 35 V peak or > 60 V d.c.	(see Annex A)	N/A
- (10.1)	Lacquer or enamel not used for protection or insulation	SLIFE MILIER MILIER	WILL AND I
NALTEK WA	Adequate mechanical strength on parts providing protection	iter wifer witer w	TEX MALTER
- (10.2)	Capacitors > 0,5 μF: voltage after 1 min (V): < 50 V:	0.005 μF	N/A
- (10.3)	Controlgear providing SELV	4 1/4 1/4	N/A
TEE WALTER WALT WALTER WALT WALTER WALTER WALTER WALTER WALTER WALT WALT WALT WALT WALT WALT WALT WALT	Accessible conductive parts are insulated from live parts by double or reinforced insulation in SELV controlgear	White while while	N/A
	No connection between output circuit and the body or protective earthing circuit	MALTER MALTER MALLE W	N/A
	No possibility of connection between output circuit and the body or protective earthing circuit through other conductive parts	LIES WHITE WHITE WAS	N/A
	SELV outputs separated by at least basic insulation	MULL MIL MULL	N/A
Mr.	ELV conductive parts insulated as live parts	NITE WALL WALL	N/A
, Et	Tests according Annex L of IEC 61347-1	(see Annex L)	N/A
- (10.4)	Accessible conductive parts in SELV circuits	inties while while we	N/A
INLIEK WILL	Output voltage under load $\leq$ 25 V r.m.s. or $\leq$ 60 V d.c.	TEX DITEX MUTEX WALT	N/A
Let Let	If output voltage > 25 V r.m.s. or > 60 V d.c.;	the state of	-N/A
	No load output $\leq$ 35 V peak or $\leq$ 60 V d.c and touch current does not exceed 0,7 mA (peak) or 2 mA d.c.	MULTER WILLE WHILE	747 TE- 176
WITE AN	One conductive part is insulated if output voltage or current exceeding the values above and withstand test voltage 500 V	antit unit was v	N/A



### Page 9 of 36

IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
WALLEX OUT	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	Whi white write and	N/A
,+ ,	Y1 or Y2 capacitors comply with IEC 60384-14	71 74 7	N/A
ALL WILL	Resistors comply with test (a) in 14.1 of IEC 60065	Will white white white	N/A

TERMINALS		N/A
Integral terminals		N/A
Screw terminals according section 14 of IEC 60598-1	(see Annex 2)	N/A
Screwless terminals according section 15 of IEC 60598-1	(see Annex 3)	N/A
Terminals other than integral terminals		
Comply with relevant IEC standard	(see Annex 1)	N/A
Suit the conditions	The Me Me An	N/A
Satisfy additional relevant requirements of this standard	MITEX WALTER WALTER WALTER	N/A
the state of the s	TEK TEK	JEK .
	Integral terminals  Screw terminals according section 14 of IEC 60598-1  Screwless terminals according section 15 of IEC 60598-1  Terminals other than integral terminals  Comply with relevant IEC standard  Suit the conditions  Satisfy additional relevant requirements of this	Integral terminals  Screw terminals according section 14 of IEC (see Annex 2)  60598-1  Screwless terminals according section 15 of IEC (see Annex 3)  60598-1  Terminals other than integral terminals  Comply with relevant IEC standard (see Annex 1)  Suit the conditions  Satisfy additional relevant requirements of this

10 (9)	PROVISION FOR EARTHING	
- (9.1)	Provisions for protective earthing	N/A
, ,,,	Terminal complying with clause 8	N/A
MULTER	Locked against loosening and not possible to loosen by hand	N/A
MILITER WAY	Not possible to loosen clamping means unintentionally on screwless terminals	N/A
LIEK WALTE	All parts of material minimizing the danger of electrolytic corrosion	N/A
et et	Made of brass or equivalent material	N/A
Mrr.	Contact surface bare metal	N/A
CENT .	Test according 7.2.3 of IEC 60598-1	N/A
- (9.2)	Provision for functional earthing	N/A
TEN S	Comply with clause 8 and 9.1	N/A
The Tex	Functional earth insulated from live parts by double or reinforced insulation	N/A
- (9.3)	Lamp controlgear with conductors for protective earthing by tracks on printed circuit board	N/A

Page 10 of 36

IEC 61347-2-11				
Clause	Requirement + Test	Result - Remark	Verdict	
while wh	Test with a current of 25 A between earthing terminal or earthing contact and each of the accessible metal parts; measured resistance ( $\Omega$ ) at $\geq$ 10 A according 7.2.3 of IEC 60598-1: < 0,5 $\Omega$ :	white white white	N/A	
- (9.4)	Earthing of built-in lamp controlgear	The Music Music Man	N/A	
EX WALTER	Earth by means of fixing to earthed metal of luminaire in compliance of 7.2 of IEC 60598-1	INTER WHITER WHITER	N/A	
MALIEK	Earthing terminal only for earthing the built-in controlgear	STEE OUTER WITER ON	N/A	
- (9.5)	Earthing via independent controlgear	111. 111.	N/A	
- (9.5.1)	Earth connection to other equipment	alter miter anite was	N/A	
LIEK MALIE	Looping or through connection, conductor min. 1,5 mm <sup>2</sup> and of copper or equivalent	at the street matter	N/A	
ek (NLIEK	Protective earthing wires in line with 5.3.1.1 and clause 7 of IEC 60598-1	Tet Tet Tet	N/A	
- (9.5.2)	Earthing of the lamp compartments powered via the controlgear	ne independent lamp	N/A	
nitek mil Ritek mil Ek itek	Test with a current of 25 A between input and output earth terminals; measured resistance $(\Omega)$ between earthing terminal or earthing contact and each of the accessible metal parts at $\geq$ 10 A according 7.2.3 of IEC 60598-1: $<$ 0,5 $\Omega$	THE MALE WALL WALL WALL	N/A	
r st	Output earthing terminal marked as in 7.1 t) of IEC 61347-1	min min min	N/A	

11 (11)	MOISTURE RESISTANCE AND INSULATION		P
- (11)	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance:		P W
The Murra	For basic insulation $\geq 2 \ \text{M}\Omega$ :	>100 MΩ	P
EK WALTER	For double or reinforced insulation $\geq$ 4 M $\Omega$ :	>100 M $\Omega$ (test with power supply)	F PIE
- (11)	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1	WILER MUTER MUTER MUTER	N/A

12 (12)	ELECTRIC STRENGTH	P
- (12)	Immediately after clause 11 electric strength test for 1 min	TER MILE PALTE
the Text	Basic insulation for SELV, test voltage 500 V	N/A
21/2 21	Working voltage ≤ 50 V, test voltage 500 V	AL ALD
LIEN NI	Working voltage > 50 V ≤ 1000 V, test voltage (V):	LIEF REP



### Page 11 of 36

IEC 61347-2-11				
Clause	Requirement + Test	Result - Remark	Verdict	
MILLE	Basic insulation, 2U + 1000 V	THE WATER WITTER WIT	N/A	
OLIEK SIN	Supplementary insulation, 2U + 1000 V	Et TET TET NITE	N/A	
TEK II	Double or reinforced insulation, 4U + 2000 V	2960 V (test with power supply)	P	
	No flashover or breakdown	uri auri auri au	Р	
IEK WALTER	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC 61347-1	TE WILLER WILLER WILLER	N/A	

14 (14)	FAULT CONDITIONS		Р
- (14.1)	When operated under fault conditions the controlgon	ear: and and	1 P 1
at all	- does not emit flames or molten material	the state of	P
11/2	- does not produce flammable gases	THE WALL WALL	P <sup>III</sup>
WALTEK .	- protection against accidental contact not impaired	TITEL MITEL MITEL ME	LIE PIE
MITEK W	Thermally protected controlgear does not exceed the marked temperature value	THE STATE WITH WITH	N/A
NITER MILI	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	W LIER W
- (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)	NU PU
- (14.3)	Short-circuit or interruption of semiconductor devices	(see appended table)	P
- (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)	IN THE PIN
- (14.6)	After the tests has been carried out on three samp	les:	Р
Will	The insulation resistance $\geq$ 1 M $\Omega$ :	>100 MΩ	√P √P
, et	No flammable gases	20, 20,	ı+ P.+
Mrs. M	No accessible parts have become live	WITE WILL MALL MALL	W. b
NLTEK WILL	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite	TEX NITES WITH MUTES	WILLEP
- (14.7)	Relevant fault condition tests with high-power a.c. supply	+ 16t 16t 17th	





		1 agc 12 01 30	Report No. WTC	0221110211020L
THE WALTE		IEC 61347-2-11		
Clause	Requirement + Test	NITER MALL WALL	Result - Remark	Verdict

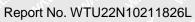
Clause	Requirement + Test	Result - Remark	Verdict
15 (15)	CONSTRUCTION		Р
- (15.1)	Wood, cotton, silk, paper and similar fibrous ma	terial	ďΡ
The Th	Wood, cotton, silk, paper and similar fibrous material not used as insulation	t at let let	Р
- (15.2)	Printed circuits	The Marie Marie And And And	Р
WALTER WALTER	Printed circuits used as internal connections complies with clause 14	nuter whiter white white	Pur
- (15.3)	Plugs and socket-outlets used in SELV or ELV	circuits	N/A
whitek whi	No dangerous compatibility between output socket-outlet and a plug for socket-outlets for input circuit in relation to installation rules, voltages and frequencies	TEK MITEK MUTEK MUTEK	N/A
LIEK WALTER	Plugs and socket-outlets for SELV comply with IEC 60906-3 and IEC 60884-2-4	H WILLER WALLER WALLER	N/A
ek whitek a	Plugs and socket-outlets for SELV $\leq$ 3 A, $\leq$ 25 V r.m.s. or $\leq$ 60 V d.c. and $\leq$ 72 W comply with IEC 60906-3 and IEC 60884-2-4 or:	Whitek Whitek Whitek White	N/A
MUTTE MU	- plugs not able to enter socket-outlets of other standardised system	NITER WALTER WALTER WALTER	N/A
NITEK WILLE	- socket-outlets not admit plugs of other standardised system	Whitek multer on	N/A
et let	- socket-outlets without protective earth	- t // /	N/A
- (15.4)	Insulation between circuits and accessible part	S WILL WILL WELL WILL	Р
- (15.4.2)	SELV circuits	at at let set	P
24. 24	Source used to supply SELV circuits:	While Aut. My Au	Р
MULIER MUL	- safety isolating transformer in accordance with relevant part 2 of IEC 61558	LIER MULES MULTER WHITELY	N/A
LIEK WALTER	- controlgear providing SELV in accordance with relevant part 2 of IEC 61347	EX STEX INTEX WITEX WI	N/A
EK MITEK	- another source	Power supply comply with EN 62368-1.	N/A N/A N/A P P P N/A
, t	Voltage in the circuit not higher than ELV	Mer Aller An An	Р
Marie M	SELV circuits insulated from LV by double or reinforced insulation	ALTER WHITER WALLER WALLE	P
INITER WALT	SELV circuits insulated from non SELV circuits by double or reinforced insulation	TEX MUTEX WITER WITER OF	N/A
ITEK WALTER	SELV circuits insulated from FELV circuits by supplementary insulation	L STEK WIFEK WITEK	N/A
k antiek	SELV circuits insulated from other SELV circuits by basic insulation	TEX LIFE SLIFE MITTER	N/A
STEE .C.	SELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5	of let the the	PL
-316 - 331			



Page 13 of 36

	IEC 61347-2-11		
Clause	Requirement + Test Result - Remark	Verdict	
- (15.4.3)	FELV circuits	N/A	
	Source used to supply FELV circuits:	N/A	
	- separating transformer in accordance with relevant part 2 of IEC 61558	N/A	
iet unitex	- separating controlgear providing basic insulation between input and output circuits in accordance with relevant part 2 of IEC 61347	N/A	
	- another source	N/A	
Mr. M.	- source in circuits separated by the LV supply by basic insulation	N/A	
WITEL WILL	Voltage in the circuit not higher than ELV	N/A	
TEK NIEK	FELV circuits insulated from LV supply by at least basic insulation	N/A	
the Cart	FELV circuits insulated from other FELV circuits if functional purpose	N/A	
74. 7	FELV circuits insulated from accessible conductive parts according Table 6 in 15.4.5	N/A	
MULL MA	Plugs and socket-outlets for FELV system comply with:	N/A	
ALTEK OLIV	- plugs not able to enter socket-outlets of other voltage systems	N/A	
IEK NITEK	- socket-outlets not admit plugs of other voltage systems	N/A	
t The	- socket-outlets have a protective conductor contact	N/A	
- (15.4.4)	Other circuits	N/A	
WATER WAT	Insulation between circuits other than SELV or FELV and accessible conductive parts in according Table 6 in 15.4.5.	N/A	
- (15.4.5)	Insulation between circuits and accessible conductive parts	La Bur	
EX WALTER	Accessible conductive parts insulated from active parts of electric circuits by insulating according Table 6	ANTE	
WALTER WA	Requirements for Class II construction with equipotential bonding for protection against indirect contact with live parts:	N/A	
At A	- all conductive parts are connected together	N/A	
itik muritk	- conductive parts are reliably connected together according test of IEC 60598-1 cl. 7.2.3	N/A	
	- conductive parts comply with requirements of Annex A in case of insulation fault	N/A	

16 (16) CREEPAGE DISTANCES AND CLEARANCES N/A	16 (16)	CREEPAGE DISTANCES AND CLEARANCES	N/A
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	IEC 61347-2-11		
Clause	Requirement + Test	Result - Remark	Verdict
	With the sale of the		S. John
- (16)	Creepage distances and clearances according to 16.2 and 16.3	and who are its	N/A
	Controlgears providing SELV comply with additional requirements in Annex L	(see Annex L)	N/A
The Mark	Insulating lining of metallic enclosures	JER WILL MULL MULL	N/A
EK WALTER	Controlgear protected against pollution comply with Annex P	(see Annex P)	N/A
- (16.2)	Creepage distances	The ship is	N/A
- (16.2.2)	Minimum creepage distances for working voltages	TER WITE WITE WILL	N/A
* *	Creepage distances according to Table 7	(see appended table)	N/A
- (16.2.3)	Creepage distances for working voltages with free	uencies above 30 kHz	N/A
LET LET	Creepage distances according to Table 8	(see appended table)	N/A
- (16.3)	Clearances	TER WALL MALL WALL A	N/A
- (16.3.2)	Clearances for working voltages	e state at a	N/A
71/2 1	Clearances distances according to Table 9	(see appended table)	N/A
- (16.3.3)	Clearances for ignition voltages and working volta	ges with higher frequencies	CLIER
Water And In	Clearances distances for basic or supplementary insulation according to Table 10	(see appended table)	N/A
	Clearances distances for reinforced insulation	(see appended table)	N/A

17 (17)	SCREWS, CURRENT-CARRYING PARTS AND CONNECTIONS	P
- (17)	Screws, current-carrying parts and connections in compliance with IEC 60598-1 (clause numbers between parentheses refer to IEC 60598-1)	WP W
(4.11)	Electrical connections	P V
(4.11.1)	Contact pressure	N/A
(4.11.2)	Screws:	N/A
et let	- self-tapping screws	N/A
mr.	- thread-cutting screws	N/A
(4.11.3)	Screw locking:	N/A
2112 211	- spring washer	N/A
TEN OUT	- rivets	N/A
(4.11.4)	Material of current-carrying parts	Р
(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	P
(4.12.1)	Screws not made of soft metal	P
1767 - W	Screws of insulating material	N/A

Page 15 of 36

	IEC 61347-2-11		
Clause	Requirement + Test	Result - Remark	Verdict
	and any any and any	the set of the	100
	Torque test: torque (Nm); part:	Metal enclosure: Φ1.65mm, 0.4Nm	P
me m	Torque test: torque (Nm); part:	Screen PCB: Φ2.92mm, 0.5Nm	Р
The Mark	Torque test: torque (Nm); part:	TER WILL MULL MULL ON	N/A
(4.12.2)	Screws with diameter < 3 mm screwed into metal	a at at a	+ P
(4.12.4)	Locked connections:	White while whi wind	N/A
- JEX	- fixed arms; torque (Nm):	at at at all	N/A
1/12 11	- lampholder; torque (Nm):	WILL MULL MULL MULL	N/A
STEEL ST	- push-button switches; torque 0,8 Nm:	at at let tet	N/A
(4.12.5)	Screwed glands; force (Nm):	in mur mur mur.	N/A

18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		P
- (18.1)	Ball-pressure test	See Test Table 18 (18.1)	Р
- (18.2)	Test of printed boards:	See Test Table 18 (18.2)	P
- (18.3)	Glow-wire test:	See Test Table 18 (18.3)	N P
- (18.4)	Needle flame test:	See Test Table 18 (18.4)	Р
- (18.5)	Tracking test:	See Test Table 18 (18.5)	N/A

19 (19)	RESISTANCE TO CORROSION	N/A
t tet	- test according 4.18.1 of IEC 60598-1	N/A
me m	- adequate varnish on the outer surface	N/A

20 (-)	ANNEXES		Р
LIEN CLIEB	Comply with appropriate annexes of IEC 61347-1	(see Annexes)	TE P IT

14	TABLE: tests of fault conditions	P
Part	Simulated fault	Hazard
MALTE W	Control PCB	WILL A
C21	SC; 0.019A, 0.9W.	YES/NO
D1	SC; 0.018A, 0.8W.	YES/NO
LD01 <sub>1-2</sub>	SC; 0.027A, 3.1W.	YES/NO
LD01 <sub>2-3</sub>	SC; 0.038A, 4.5W.	YES/NO
D4	SC; 0.053A, 6.5W.	YES/NO
U6 <sub>1-2</sub>	SC; 0.035A, 4.0W.	YES/NO
U6 <sub>2-3</sub>	SC; 0.035A, 4.0W.	YES/NO

Page 16 of 36

TEK MITE	IEC	61347-2-11	MITE MITE
Clause	Requirement + Test	Result - Remark	Verdict
U6 <sub>3-4</sub>	SC; 0.035A, 4.0W.	LIET NIET WILL MILE MUIE	YES/NO
U6 <sub>5-6</sub>	SC; 0.035A, 4.0W.		YES/NO
U6 <sub>6-7</sub>	SC; 0.035A, 4.0W.	the will mail mill on	YES/NO
U6 <sub>7-8</sub>	SC; 0.035A, 4.0W.	A SHE SHE SHE	YES/NO
D7	SC; 0.035A, 4.1W.	with mil with vine will	<del>YES/</del> NO
U8 <sub>1-2</sub>	SC; 0.036A, 4.2W.	LEK TEK TEK TIEK MITE	YES/NO
U8 <sub>2-3</sub>	SC; 0.035A, 4.1W.	The me me me	YES/NO
U8 <sub>3-4</sub>	SC; 0.038A, 4.5W.	THE THE STEE WITE MITE	YES/NO
U8 <sub>5-6</sub>	SC; 0.035A, 4.1W.	her Aug Aug Aug Aug	YES/NO
U8 <sub>6-7</sub>	SC; 0.035A, 4.1W.	FEE STEE NITER WITER WHITE WI	YES/NO
U8 <sub>7-8</sub>	SC; 0.035A, 4.1W.		YES/NO
D11	SC; 0.035A, 4.1W.	CLIFE WILL WILL WILL WILL	<del>YES/</del> NO
ek lifek	Sci Mr. M. Sci	een PCB	THE STIEF
U6 <sub>1-2</sub>	SC; 0.022A, 1.1W. Screen was not	displayed.	<del>YES/</del> NO
U6 <sub>2-3</sub>	SC; 0.033A, 3.8W.	A SH SEX SEX STEEL	<del>YES/</del> NO
D2	SC; 0.035A, 4.0W.	The way are any a	YES/NO
D3	SC; 0.035A, 4.0W.	at the Late Country of	YES/NO
D1	SC; 0.056A, 6.8W. Screen was not	displayed.	<del>YES/</del> NO

16 (16)	TABLE:	creepage di	stance and cl	earance (mn	n)		N/A
	<b>_</b>	Applic	able part of IE	C 61347-1 T	able 7 – 11*		
Distances	Insulation	Measured	Requ	iired	Measured	Require	ed
	type **	clearance	clearance	*Table	creepage	creepage	*Table
Distance 1:	- Lifet o	LIER MITE	mer me	20, 1		* #	TEX.
Working volt	age (V)				<30V	VEL MUE A	_
Frequency if	applicable (	kHz)		:		at 1th 5	<u> </u>
PTI:				< 600 🗌	≥ 600 □	_	
Peak value o	of the working	g voltage Û₀u	t if applicable (	kV):	et 16	t Jet Je	_
Pulse voltag	e if applicabl	e (kV)	t	:	The ship	20, 20,	_
Supplementa	ary information	on:	4	at at	TEK SEK	NIER WITER	JALIA IN
Distance 2:	J.	Et JEX	WITE	MULL VI	in min.	20 70	
Working volt	age (V)	7/12		;	CENT STEET OF	LIER WILL WA	_
Frequency if	applicable (	kHz)			14. 14.	d 24 4	_
PTI	Lr Mr	40			< 600 🗌	≥ 600 □	_
Peak value of	of the working	g voltage Ûou	if applicable (	kV):	20, 2,	at at	_
Pulse voltag	e if applicabl	e (kV)			ALTER MITTER	MULL MULL	_



#### Page 17 of 36

	in the lieu	61347-2-11			
Clause	Requirement + Test	MULL MUL	Result - Remark	70 A	Verdict
Supplementa	ry information:	MITER MALTER	WALLER WALLER	Mrite Mills	ant.
Distance 3:	er with him hay have		at let	LIEN SLITER	MITE
Working volta	age (V)	j;	Vr. 21/2 21	40.	_
Frequency if	applicable (kHz)	:	Clt Set S	IEK NITER N	_
PTI			< 600 🗌	≥ 600 □	_
Peak value o	f the working voltage Ûout if applicable	(kV):	- NIER WITE	WILL WILL	_
Pulse voltage	e if applicable (kV)	- 1/2 - 1/2 :	21, 2,	A 18	_
Supplementa	ry information:	TEX TEX	STER WITER	ancie ancie	11/2

<sup>\*\*</sup> Insulation type: B – Basic; S – Supplementary; R – Reinforced

18 (18.1)	TABLE: Ball	Pressure Test	THE THE TOTAL P. L.		
Allowed impression diameter (mm):		WILL MALLE WALL	were mer me -		
Object/ Part N	o./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diameter (mm)	
DC inlet (J2)		See Annex 1	125	1.07	
DC inlet (J3, J4)		The surface of	125	1.51	
DC inlet (J5, J6)			125	1.02	
Battery suppor	t	7 4 12 23	125	1.39	
Connector for	display screen		125	1.14	
Control PCB Screen PCB		TEX TEX MITER	125	0.55	
		125	0.59		

18 (18.2)	TABLE: Test of pr	inted boards		ALTER MITER NA	p
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Control PCB	See Annex 1	30	No	1.0	Р
Screen PCB	20, 20	30	No. No.	1.0	n P

18 (18.3) T	ABLE: Glow-wire test	WILL MILL MALL MILL MAL MILL	Р
Glow wire temp	perature:	650°C	_

Page 18 of 36

			rioponinio i i i			
LIER WALTE	IEC 61347-2-11					
Clause	Requirement + Test	IK WILLIAMVILL MUT	Result - Remark	Verdict		

Object/ Part No./ Material	Manufacturer/ trademark	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
Label	See Annex 1	No	0	P
Transparent insulation sheet		No white	or or	P
Support pillar for display screen		anti No anti	0	P
Support pillar for indicator		No	t The Other	ALTEP NO
Battery support		No w	0	P

18 (18.4)	TABLE: Needle-fi	lame test		EX TEX STEX	P
Object/ Part No./ Material	Manufacturer/ trademark	Duration of application of test flame (s)	Ignition of specified layer Yes/No	Duration of burning (s)	Verdict
DC inlet (J2)	See Annex 1	10	No	2.0	μP
DC inlet (J3, J4)	EX WHITEX WHITEX	10 pp	No No	3.0	Р
DC inlet (J5, J6)		10	No	3.0 mile	W P
Battery support	WALTER WALTER	10	No	A 11. 3.0 White	nti P
Connector for display screen	INTEX WHITEK WA	10	No No	white will	TEK P
Control PCB	TE WALLE WHE	10	No No	1.0	Р
Screen PCB	C A A	10	No	1.0	Р

18 (18.5)	TABLE: Proof tracking test	mer me me on	N/A
Test voltage F	PTI::	175 V	_



Page 19 of 36

IEC 61347-2-11						
Clause	Requ	uirement + Test	THE WALL W	Result - Remark	Verdict	
, Little	(C)	Vr. Mr. M.	400	at the little	The sale with	
Object/ Part Material	Object/ Part No./ Manufacturer/ Withstand 50 drops without failure on three place or on three specimens		ree places Verdict			
m. m.	-20	, * A	THE THE MITTER	white when whi	20, 10, 2	
TEX SI	NITE OF THE	intil muti my	in any	at at all	TER TER ON	
- 20	100	A St St	EX STEX MITE S	Will Mr. Mr.	21/2 211 211	
Supplemen	tary infor	mation:	24	at at all	LIER SLIER MITE	

Page 20 of 36

IEC 61347-2-11					
Clause	Requirement + Test	Result - Remark	Verdict		

(A)	ANNEX A - TEST TO ESTABLISH WHETHER A CONDUCTIVE PART IS A LIVE PART WHICH MAY CAUSE AN ELECTRIC SHOCK		nti P
(A.1)	Comply with A.2 or A.3	1 1 1 1	P
(A.2)	Voltage ≤ 35 V peak or ≤ 60 V d.c:	5.99VDC	Р
(A.3)	If voltage measured according Clause A.2 exceeds the limit value; touch current does not exceed 0,7 mA (peak) or 2 mA d.c.	Whitek whitek whitek	N/A

(C)	ANNEX C – PARTICULAR REQUIREMENTS FOR ELECTRONIC LAMP CONTROLGEAR WITH MEANS OF PROTECTION AGAINST OVERHEATING	N/A
(C3)	GENERAL REQUIREMENTS	N/A
(C3.1)	Thermal protection means integral with the convertor, protected against mechanical damage	N/A
in.	Renewable only by means of a tool	N/A
MUTITEE M	If function depending on polarity, for cord- connected equipment protection means in both leads	N/A
NETER MALT	Thermal links comply with IEC 60691	N/A
at at	Electrical controls comply with IEC 60730-2-3	N/A
(C3.2)	No risk of fire by breaking (clause C7)	N/A
(C5)	CLASSIFICATION	N/A
aller. 1	a) automatic resetting type	Inc. —
All I	b) manual resetting type	d -
no in	c) non-renewable, non-resetting type	у <u> </u>
UP SUF	d) renewable, non-resetting type	_ ر
- 10	e) other type of thermal protection; description:	
(C6)	MARKING OF THE PARTY OF T	N/A
(C6.1)	Symbol for temperature declared thermally protected ballasts	N/A
(C6.2)	Declaration of the type of protection provided	N/A
(C7)	LIMITATION OF HEATING	N/A
(C7.1)	Preselection test:	N/A
TER WALTE	Test sample placed for at least 12 h in an oven having temperature (t₂ - 5) K	N/A
& SLIEB	No operation of the protection device	N/A
(C7.2)	Functioning of protection means:	N/A

Page 21 of 36

IEC 61347-2-11				
Clause	Requirement + Test	Result - Remark	Verdict	
	inti ant and an an at at	At Att St	alte Min.	
unliek un	Normal operation of the sample in a test enclosure according to Annex D at an ambient temperature such that ( $t_c$ +0; -5) °C is obtained	with white wifer	N/A	
et d	No operation of the protection device		N/A	
it was	Introducing of the most onerous test condition determined during test of clause 14.2 to 14.5	er white white whi	N/A	
is white	Output of windings connected to the mains supply short-circuited, and other part of the controlgear operated under normal conditions	Whitek whitek white	N/A	
whitek whi	Increasing of the current through the windings continuously until operation of the protection means	net and and	N/A	
TEK JIEN	Continuous measuring of the highest surface temperature	t lit lit in	N/A	
of the	Ballasts according to C5 a) or C5 e) operated until stable conditions are achieved	mer are ar	N/A	
m,	Automatic-resetting thermal protectors working 3 times	white will will will	N/A	
WILL ALL	Ballasts according to C5 b) working 6 times	LITER OLITER WITE IN	N/A	
NLTEX NALTY	Ballasts according to C5 c) and C5) d) working once	et Just a	N/A	
SEK SLIEK	Highest temperature does not exceed the marked value	The state of	N/A	
t Test	Any overshoot of 10% over the marked value within 15 min	Mus and an	N/A	
21/22 2	After 15 min value not exceed marked value	WITE WITE WALL	N/A	

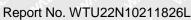
(D) ANNEX D – REQUIREMENTS FOR CARRY OUT THE HEATING TESTS OF THERMALLY PROTECTED LAMP CONTROLGEAR			N/A
1 2 My 2	Tests in C7 performed in accordance with Annex D, if applicable	er murre murre murre mu	N/A

(F)	ANNEX F - DRAUGHT-PROOF ENCLOSURE	, , P+
Mur.	Draught-proof enclosure in accordance with the description	Mr. M. B. A
WILLE W	Dimensions of the enclosure	THE ME PART
*	Other design; description	N/A

(H)	ANNEX H - TESTS		P
MUT, MU	All tests performed in accordance with the advice given in Annex H, if applicable	murice muite muit muit	P

	Page 22 of 36 Report No. WTU22N10211826L				
TEN WITE	IEC 61347-2-11	ex tex stex atternation of	LIE WALL		
Clause	Requirement + Test	Result - Remark	Verdict		
and the same	ANNEY LABORTONAL DECLUDEMENTS FOR	DINI T IN MACHETIC	7,017		
(I)	ANNEX I – ADDITIONAL REQUIREMENTS FOR BALLASTS WITH DOUBLE OR REINFORCED IN		N/A		
(1.6)	Symbol on ballasts with double or reinforced insulation	till mill mill mill	N/A		
Lie Mer	Symbol explained in manufacturers catalogue	ER WILL AUT MULT A	N/A		
(1.9)	No protective earthing terminal		N/A		
(I.12)	Devices for limiting the temperature bridged	e antie matie mati mati	_		
TEN	After the test according clause 13	at at all of	N/A		
70 Z	At least six of seven ballast start the lamp and the current not exceed 115%	With Mary Mary My	N/A		
iner in	Insulation resistance not less than 4 $\text{M}\Omega$ between winding and case for all ballasts	iter white white white	N/A		
et jet	All ballasts withstand electric strength test reduced to 35% of values in Table 1 of IEC 61347-1	MULTER MULTER MULTER OF	N/A		
(I.15)	Built-in ballasts with double or reinforced insulation comply with corresponding values of creepage and clearances in IEC 60598-1	WHILE MALE WILL WILL WILLIAM	N/A		
4	the state of the s	The	<i>*</i>		
(L)	ANNEX L - PARTICULAR ADDITIONAL REQUIR CONTROLGEARS PROVIDING SELV	EMENTS FOR	N/A		
(L.3)	Classification	The List of the Control of the Contr	N/A		
	Class I	Yes No No	a —		
MILIE	Class II	Yes No No	_		
. A.	Class III	Yes No No	_		
Muric M.	non-inherently short circuit proof controlgear	Yes No No	<u> </u>		
All A	inherently short circuit proof controlgear	Yes No No	_		

, ,,	Class I	Yes No No	_
antie.	Class II	Yes No No	_
at-	Class III	Yes No No	_
mer m	non-inherently short circuit proof controlgear	Yes No No	_
all S	inherently short circuit proof controlgear	Yes No No	_
A 245	fail safe controlgear	Yes No No	_
EX LIEX	non-short-circuit proof controlgear	Yes No No	_
(L.4)	Marking	Mur aur au	N/A
RUEL	Adequate symbols are used	TEX TEX LIER NUTER	N/A
(L.5)	Protection against electric shock	ing the the	N/A
WITE WILL	Comply with clause 9.2 of IEC 61558-1	TEX LIEX OLIER OLIER OF	N/A
(L.6)	Heating	in the state of	N/A
LIE WALL	No excessive temperatures in normal use	t alter with write whi	N/A
st est	Value if capacitor to marked:	40 A A	_
Will.	Winding insulation classified as Class:	WITE WALL WALL WALL	_
NALTEK W	Comply with tests of clause 14 of IEC 61558-1 with adjustments	LIEF WIFE WIFE WILLIER	N/A







3 4/2	IEC 61347-2-11	any any
Clause	Requirement + Test Result - Remark	Verdict
(L.7)	Short-circuit and overload protection	N/A
MUTEL MY	Comply with tests of clause 15 of IEC 61558-1 with adjustments	N/A
(L.8)	Insulation resistance and electric strength	N/A
(L.8.1)	Conditioned 48 h between 91 % and 95 %	N/A
(L.8.2)	Insulation resistance	N/A
- TER	Between input- and output circuits not less than 5 MΩ:	N/A
onetek ouni	Between metal parts of class II convertors which are separated from live parts by basic insulation only and the body not less than 5 M $\Omega$ :	N/A
LIEN WALTER	Between metal foil in contact with the inner and outer surfaces of enclosures of insulating material not less than 2 M $\Omega$	N/A
(L.8.3)	Electric strength	N/A
Call C	Between live parts of input circuits and live parts of output circuits:	N/A
Mr. M	2) Over basic or supplementary insulation between:	N/A
All S	a) live parts having different polarity:	N/A
The The	b) live parts and body if intended to be connected to protective earth:	N/A
in mr.	c) accessible metal parts and a metal rod of the same diameter as the flexible cable or cord:	N/A
. write a	d) live parts and an intermediate metal part:	N/A
	e) intermediate metal parts and the body:	N/A
antite and	f) each input circuit and all other input circuits:	N/A
LIEK MLTE	3) Over reinforced insulation between the body and live parts:	N/A
(L.9)	Construction	N/A
(L.9.1)	Transformer comply with 19.12 of IEC 61558-1 and 19 of IEC 61558-2-6	N/A
NLTER OF	HF transformer comply with 19 of IEC 61558-2-16	N/A
(L.10)	Components	N/A
INLIES WINE	Protective devices comply with 20.6 – 20.11 of IEC 61558-1	N/A
(L.11)	Creepage distances, clearances and distances through insulation	N/A
y Tex	Creepage distances and clearances not less than in Clause 16	N/A
11/2 1	Distance through insulation according Table L.5 in IEC 61347-1	N/A
Att.	1) Basic distance through insulation	N/A





IEC 61347-2-11			
Clause	Requirement + Test	Result - Remark	Verdict
	the star star star star star		160
7	Required distance (mm):	me me me	_
.nlie .nr	Measured (mm)	THE LITER SLITER MATERIAL	N/A
	Supplementary information	In the the second	_
Vile Will	2) Supplementary distance through insulation	Et SIFE RIFER WITE W	N/A
at at	Required distance (mm):	All the state of	_
, July	Measured (mm)	BLIEF WHILE WHILE WAL	N/A
- LEFE	Supplementary information	a state	_
1112 11	3) Reinforced distance through insulation	WILL MALL MULL MULL	N/A
CIENT N	Required distance (mm):	at at the test	_
41, 44	Measured (mm)	The Mary Mary Mary	N/A
JEK JE	Supplementary information	of the text start is	· —

(N)	ANNEX N - REQUIREMENTS FOR INSULATION MATERIALS USED FOR DOUBLE OR REINFORCED INSULATION	OR N/A
(N.4)	General requirements	N/A
(N.4.1)	Material comply with IEC 60085 and IEC 60216 series	N/A
(N.4.2)	Solid insulation	N/A
IEK WALTER	Electric strength test at least 5 kV or 1,35 x test voltage in Table N.1	N/A
MUTER M	If not classified according IEC 60085 and IEC 60216 series: Electric strength test increased 10 % to 5,5 kV or 1,5 x test voltage in Table N.1	N/A
(N.4.3)	Thin sheet insulation	N/A
(N.4.3.1)	Thickness and composition of thin sheet insulation	N/A
iter mite	Inside the ballast and not subjected to handling or abrasion during the production and during maintenance	N/A
AUG.	- Non-separated layers: Min. 3 layers and fulfil mandrel test of 150N	N/A
MUTTE MY	- Separated layers: Min. 2 layers and each layer fulfil mandrel test of 50N	N/A
INLIEE WILL	- Separated layers (alternative): Min. 3 layers and 2/3 of the layers fulfil mandrel test of 100N	N/A
(N.4.3.2)	Mandrel test (electric strength test during mechanical stress)	N/A
-24	Electric strength test after mandrel test:	N/A
MITER	- Non-separated layers: min. 5 kV or 1,35 x test voltage in Table N.1	N/A
WITEK WA	- 2/3 of min. 3 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1	N/A

Page 25 of 36

IEC 61347-2-11				
Clause	Requirement + Test	Result - Remark	Verdict	
THE STATE OF	- one of 2 separated layers: min. 5 kV or 1,25 x test voltage in Table N.1	Antiganization of	N/A	
me m	No flashover or breakdown occurred	Willy Mr. Mr. M.	N/A	

(0)	ANNEX O - ADDITIONAL REQUIREMENTS FOR BUILT-IN ELECTRONIC CONTROLGEAR WITH DOUBLE OR REINFORCED INSULATION					
(O.6)	Marking Marking					
- Kill	Marking according clause 7 (7)	See clause 7	N/A			
1115 111	Special symbol	WILL MULL MULL MULL	N/A			
UNLIEK WAL	Meaning of the special symbol explained in catalogue	TEX MITEX MILIER WHITEK	N/A			
(0.7)	Protection against accidental contact with live	parts	N/A			
in m	Requirements of clause 8 (10)	See clause 8	N/A			
WILLER	Test finger not possible to make contact with basic insulated metal parts	NITER WILLER WILLER	N/A			
(O.8)	Terminals		N/A			
Mrr. M	Clause 9 (8)	See clause 9	N/A			
(O.9)	Provision for earthing					
ik ilk	Functional earthing terminals comply with clause 9 of part 1	A MILL MULE	N/A			
MULL	No protective earthing terminal	CLIFE WALL WALLE WA	N/A			
(O.10)	) Moisture resistance and insulation					
11/2 1	Clause 11 (11)	See clause 11	N/A			
(0.11)	Electric strength	a st set set	N/A			
m. m.	Clause 12 (12)	See clause 12	N/A			
(O.13)	Fault conditions					
. 70	Clause - (14)	See clause 14	N/A			
WALTER	End of test, between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface comply with dielectric strength test reduced to 35 % of values according Table 3 in part 1	Whilek whilek whilek while	N/A			
Nitek wai Tek Tek	Insulation resistance according to CI.10 between live part and accessible metal parts or external parts of insulating material in contact with the supporting surface not less than 4 $\text{M}\Omega$	TEK WALTER WALTER	N/A			
(0.14)	Construction	mer me me m	N/A			
CLIER.	Clause 17 (15)	See clause 17	N/A			
70.	Accessible metal parts insulated from live parts by double or reinforced insulation	mer were the tex	N/A			





IEC 61347-2-11					
Clause	Requirement + Test	Result - Remark	Verdict		
	The other and an an it	the other often	Carle Carle		
	Live part insulated from supporting surface in contact with external faces by double or reinforced insulation	THE WILL AND AND	N/A		
(O.15) Creepage distances and clearances					
VIII WILL	Clause 18 (16)	See clause 18	N/A		
IEK WALTER	Comply with corresponding values for luminaries in IEC 60598-1	y lifet lifet mite	N/A		
(O.16)	Screws, current-carrying parts and connection	ns ·	N/A		
white w	Clause 19 (17)	See clause 19	N/A		
(O.17)	Resistance to heat and fire	n n +	N/A		
mer mi	Clause 20 (18)	See clause 20	N/A		
(O.18)	Resistance to corrosion		N/A		
in min	Clause 21 (19)	See clause 21	N/A		

(P)	isolation (DTI) for lamp controlgear which are protected against pollution by the use of coating or potting					
(P.1)	General A A A A A A A A A A A A A A A A A A A					
NITE WALL	P.2 applies if creepage distances less than the minimum in Table 7 and 8	N/A				
SEE WALTER	P.3 applies if clearance less than the minimum in Table 9, 10 and 11	N/A				
(P.2)	Creepage distances	N/A				
(P.2.2)	Minimum creepage distances for working voltages and rated voltages with frequencies up to 30 kHz (Table P.1)					
mr. m	Basic or supplementary insulation:	N/A				
76th J16	Required creepage:	_				
10	Measured:	N/A				
EX NITER	Supplementary information	_				
10	Reinforced insulation:	N/A				
WITE N	Required creepage:					
	Measured:	N/A				
inlike whi	Supplementary information	_				
(P.2.3)	Creepage distances for working voltages with frequencies above 30 kHz (Table P.2)	N/A				
, ,,,	Voltage Ûout kV:	_				
MULTER	Frequency:	_				
d	Required distance:	_				
Wer all	Measured:	N/A				



### Page 27 of 36

	IEC 61347-2-11					
Clause	Requirement + Test	Result - Remark	Verdict			
الد الماكنين	The way and any any	- At Att Off	all order			
	Supplementary information	my my my	- n			
(P.2.4)	Compliance with the required creepage distances	TEX TEX TEXT	N/A			
(P.2.4.1)	Compliance in accordance with 16.3.3 and test according P.2.4.2	N/A				
(P.2.4.3)	Electrical tests after conditioning	N/A				
(P.2.4.3.1)	2.4.3.1) Insulation resistance and electric strength according Clause 11 and 12					
(P.3)	Distance through isolation	A ST ST	N/A			
(P.3.4)	Electrical tests after conditioning	N/A				
(P.3.4.1)	Insulation resistance and electric strength according Clause 11 and 12	N/A				
(P.3.4.2)	Impulse voltage dielectrical test	N/A				
11/2	Basic or supplementary insulation:	TER MALLE MALLE WALL	N/A			
the treet	Working/rated voltage	a state of				
10, 10,	Impulse voltage	antic and and	N/A			
SLIFE WI	Supplementary information	et set set	LITER -			
10, 0,	Reinforced insulation:	Why They are	N/A			
NITE" NALTY	Working/rated voltage:	it the ci	7 m -			
	Impulse voltage:	2 20 20	N/A			
ic anti-	Supplementary information	E TE STATE OUT	anti —			





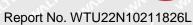
IEC 61347-2-11					
Clause	Requirement + Test	Result - Remark	Verdict		

Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s	s) of rmity <sup>1)</sup>
Power supply	B White	Shenzhen Xin YiJia Electronics Co Ltd	AS013W- 0502000ZC	Input: 100- 240V~, 50/60Hz, 0.45A; Output: 5VDC, 2A, 10W; Class II, indoor use	EN 62368-1	(CE) A	600
Output wire of power supply	C	TONGXIANG ZHOUQUAN HONGKE ELECTRIC FACTORY	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E3 tested appliar	
Alt.	C	LTK Electric Wire (Huizhou) Ltd	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E1 tested appliar	
Alt.	С	GUANGDONG HAERKN NEW ENERGY CO LTD	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E300956 + tested with appliance	
Alt.	C	DONGGUAN CITY DHE WIRE & CABLE CO LTD	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E343712 + tested with appliance	
Alt.	CNA	QIFURUI ELECTRONICS CO	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E211048 - tested with appliance	
Alt.	C	LINOYA ELECTRONIC TECHNOLOGY CO LTD	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E315619 + tested with appliance	
Alt.	C	DONGGUAN NISTAR TRANSMITTING TECHNOLOGY CO INC	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E214184 + tested with appliance	
Alt.	С	XINYA ELECTRONIC CO LTD	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E170689 + tested with appliance	
Alt.	С	Suzhou Dian Hang Electronic Co Ltd	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E354173 + tested with appliance	
Alt.	Cour	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	2464	22AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E3 tested appliar	



Page 29 of 36

The Will W	hr.	are are an	IEC 6134	47-2-11	et jet	Ties alie		in which	
Clause	Requirement + Test		White Wall was		Result - Remark		٠,	Verdict	
Alt.	C	SUZHOU YONGHAO CABLE CO LTD	2464	22AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		313065 + d with ance	
Alt.	C	Hichain Electricity (Zhaoqing) Co Ltd	2464	22AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		304337 + d with ance	
Alt.	y C y	SHENZHEN LILUTONG TECHNOLOGY INDUSTRY CO LTD	2464	22AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		09471 + d with ance	
Alt. 15 white	CITEL	SUZHOU SHUNTONG WIRE & CABLE CO LTD	2464	22AW( 300V	Э, 80°С,	IEC 61347-1 IEC 61347- 2-11		339682 + d with ance	
Alt.	C	SHENZHEN YUEDENG ELECTRONICS CO LTD	2464	22AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		471418 + d with ance	
Control link cable and Temperature sensor cable	C	SUZHOU SHUNTONG WIRE & CABLE CO LTD	2464	28AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		339682 + d with ance	
Alt.	C	TONGXIANG ZHOUQUAN HONGKE ELECTRIC FACTORY	2464	28AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11		365749 + d with ance	
Alt.	C	LTK Electric Wire (Huizhou) Ltd	2464	28AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11	- A	148000 + d with ance	
Alt.	C	GUANGDONG HAERKN NEW ENERGY CO LTD	2464	28AW( 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11	Sec.	300956 + d with ance	
Alt.	C	DONGGUAN CITY DHE WIRE & CABLE CO LTD	2464	28AW0 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11	teste	UL E343712 + tested with appliance	
Alt.	C	QIFURUI ELECTRONICS CO	2464	28AW0 300V	Э, 80°С,	IEC 61347-1 IEC 61347- 2-11		211048 + d with ance	
Alt.	C	LINOYA ELECTRONIC TECHNOLOGY CO LTD	2464	28AW( 300V	G, 80°C,	IEC 61347-1 IEC 61347- 2-11	L 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	315619 + d with ance	





		3	
LIEN WITE	while the the All I	EC 61347-2-11	
Clause	Requirement + Test	Result - Remark	Verdict

Clause	rtequii	rement + rest	16. M.	Result - P	Ciliaik	verdict
- 10 11 11 11 11 11 11 11 11 11 11 11 11	r all	2/1, 2/1,	<u> </u>	A SET	JEE STEE	Willy Mary
Alt.	C WALT	DONGGUAN NISTAR TRANSMITTING TECHNOLOGY CO INC	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E214184 + tested with appliance
Alt.	C	XINYA ELECTRONIC CO LTD	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E170689 + tested with appliance
Alt.	C	Suzhou Dian Hang Electronic Co Ltd	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E354173 + tested with appliance
Alt. A WALLE	C TO	KUNSHAN XINGHONGMEN G ELECTRONIC CO LTD	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E315421 + tested with appliance
Alt. When	C	SUZHOU YONGHAO CABLE CO LTD	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E313065 + tested with appliance
Alt.	C whi	Hichain Electricity (Zhaoqing) Co Ltd	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E304337 + tested with appliance
Alt.	C	SHENZHEN LILUTONG TECHNOLOGY INDUSTRY CO LTD	2464	28AWG, 80°C, 300V	IEC 61347-1 IEC 61347- 2-11	UL E309471 + tested with appliance
Label	I C	Suzhou Huayin Packaging Co., Ltd	The Ties	PC, 0.3mm	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Transparent insulation sheet	C	SKC Co.,Ltd.	SG82	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E74359 + tested with appliance
Alt.	C	TORAY INDUSTRIES INC FILM DIV	Lumirror (#)	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E86511 + tested with appliance
Alt.	С	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DF6027	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E199019 + tested with appliance
Alt. When	C	JIANGSU YUXING FILM TECHNOLOGY CO LTD	6023/6027D/6 027	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E212271 + tested with appliance
Alt.	C NI	JIANGSU YUXING FILM TECHNOLOGY CO LTD	6023Z	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E212271 + tested with appliance



Page 31 of 36

IEC 61347-2-11						
Requirement + Test	Result - Remark	Verdict				

The street of	16.	to the me	30	L A At	LEK JEH	ALTE MITTE
Alt.	C SUNLY	SICHUAN DONGFANG INSULATING MATERIAL CO LTD	DF6025	PET, 0.2mm	IEC 61347-1 IEC 61347- 2-11	UL E199019 + tested with appliance
PCBs	С	KUNSHAN JINPENG ELECTRONICS CO LTD	JP-1/JP-2	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E306084 + tested with appliance
Alt.	C	SUZHOU CITY YILIHUA ELECTRON CO.,LTD	YLH-6	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E251781 + tested with appliance
Alt.	C	Weiliguang Technology Co Ltd	JK-1/JK-2	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E472363 + tested with appliance
Alt.	C	ANHUI HONGXIN ELECTRONIC TECHNOLOGY CO LTD	HX-01/HX- 02/HX-03	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E468758 + tested with appliance
Alt.	С	Kunshan Suyuan Eloctronic Group Co., Ltd.	MSY	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E233870 + tested with appliance
Alt.	С	SUZHOU XINKE ELECTRONICS CO LTD	XK-2, XK-3	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E231590 + tested with appliance
Alt.	C	GLOBAL SUCCESS CIRCUITS CO LTD	T-1 VILLEY	V-0, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E324220 + tested with appliance
DC inlet (J2)	C	Horustech Electronics Co., Ltd	DC-005	DC 12V, 2A	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
DC inlet (J3, J4)	С	Horustech Electronics Co., Ltd	PJ3025C	0.5A; DC30V	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
DC inlet (J5, J6)	C	Horustech Electronics Co., Ltd	PJ-211A	0.5A; DC30V	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
T1 magnet wire	C	ZHEJIANG SANXING ELECTRICAL TECHNOLOGY CO., LTD.	2UEW/155	155°C	IEC 61347-1 IEC 61347- 2-11	UL E327855 + tested with appliance
Alt.	С	HENG YA ELECTRIC KUN SHAN LTD	TYA1-U155	155°C	IEC 61347-1 IEC 61347- 2-11	UL E245514 + tested with appliance





IEC 61347-2-11						
Clause	Requirement + Test	Result - Remark	Verdict			

Alt.	C	SHANGHAI LUCKY TRADE CO LTD	TIW-B	155°C	IEC 61347-1 IEC 61347- 2-11	UL E305883 + tested with appliance
Insulation tape	CIENT	SUZHOU MAILADUONA ELECTRIC MATERIAL CO LTD	JY313#	600V, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E188295 + tested with appliance
Alt.	C WILL	JINGJIANG YAHUA PRESSURE SENSITIVE GLUE CO LTD	CT* (c)(g)	600V, 130°C	IEC 61347-1 IEC 61347- 2-11	UL E165111 + tested with appliance
Switch (SW1- SW5)	C	Horustech Electronics Co., Ltd	TS1214- 250AH	DC12V, 50mA	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Alt.	C	Suzhou Lai long Electronic Technology Co., Ltd	TC-00121- 140E	DC12V, 0.3A	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Switch (SW6)	C	Horustech Electronics Co., Ltd	TS6217- 250AH	DC12V, 50mA	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Alt.	C	Zhejiang Lingxiang Electronics Co., Ltd.	8HA-C-A-S1- 01170	DC12V, 50mA	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Support pillar for display screen	C	SUZHOU HUIHUA ELECTRICS TECH CO., LTD	HTP-311	PA66, 2.5mm	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Connector for display screen	С	Suzhou Liqin Electronics Co., Ltd	TEX WITTE	PBT, 2.0mm	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Support pillar for indicator	C vii	SUZHOU HUIHUA ELECTRICS TECH CO., LTD	LEDP-9	PA66, 3.0mm	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Button battery	B	MATSUSHITA ELECTRIC INDUSTAIAL CO LTD	CR2032	3V Market Mark	IEC 62133	CE test report
Battery support	С	Horustech Electronics Co., Ltd	BS-02	3.0mm	IEC 61347-1 IEC 61347- 2-11	Tested with appliance
Relay (Relay1, Relay2)	Bur	Xiamen Hongfa Electroacoustic Co., Ltd.	HFD4/5-S	0.5A, 125VAC, T85	EN 61810-1	TÜV Rheinland R 50333270

Page 33 of 36

Report No. WTU22N10211826L

NITER WALTER	EC 61347-2-11	NITE WALTE	
Clause	Requirement + Test	Result - Remark	Verdict

Alt. Relay	С	Omron Corp	G6K-2F-Y	0.3A, 125VAC,	EN 61810-1	UL E41515 +
(Relay1,	176	Chile William	Vr. 20	T85	4 4	tested with
Relay2)	also.	20. 20.	1 1	THE THE ST	The M	appliance

Supplementary information:

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

The codes above have the following meaning:

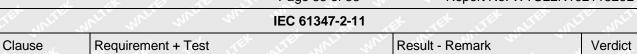
- A The component is replaceable with another one, also certified, with equivalent characteristics
- B The component is replaceable if authorised by the test house
- C Integrated component tested together with the appliance
- D Alternative component

Page 34 of 36

IEC 61347-2-11						
Clause	Requirement + Test	MITEL WALL WAL	Result - Remark	Verdict		

ANNEX 2	Screw terminals (part of the controlgear)					
(14)	SCREW TERMINALS (IEC 60598-1)	- 411. An -	N/A			
(14.2)	Type of terminal	LIFE MITE WATER WATER WATER	_			
at at	Rated current (A)	: 30 1 1	_			
(14.3.2.1)	One or more conductors	THE WALL WALL WALL	N/A			
(14.3.2.2)	Special preparation	a at at at	N/A			
(14.3.2.3)	Terminal size	RIFE WALL WALL WALL	N/A			
JEN J	Cross-sectional area (mm²)	L JA JEB JEB	_			
(14.3.3)	Conductor space (mm)	California Mar Mar M	N/A			
(14.4)	Mechanical tests	L JEH JEH JEH J	N/A			
(14.4.1)	Minimum distance	Mur aur au au	N/A			
(14.4.2)	Cannot slip out	LET TEX LIFE RUTE	N/A			
(14.4.3)	Special preparation	are me me m	N/A			
(14.4.4)	Nominal diameter of thread (metric ISO thread)	: M	N/A			
, L 2	External wiring	Zur Zur Zur	N/A			
NITE WILL	No soft metal	E CALIFE MITE WA	N/A			
(14.4.5)	Corrosion	7 1 1	N/A			
(14.4.6)	Nominal diameter of thread (mm)	Life out on the wait	N/A			
t st	Torque (Nm)		N/A			
(14.4.7)	Between metal surfaces	LIER MITE MAIL WALLE	N/A			
at a	Lug terminal	L A R	N/A			
wer awa	Mantle terminal	The WALL MALL MALL W	N/A			
TEX TEX	Pull test; pull (N)		N/A			
(14.4.8)	Without undue damage	WITE MALL WALL AND	N/A			





ANNEX 3	NNEX 3 Screwless terminals (part of the controlgear)						
(15)	SCREWLESS TERMINALS (IEC 60598-1)						
(15.2)	Type of terminal:	METER WIT -					
* 15	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					
CLIEF JOY	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					
٠ ٠	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					
Mile Miles	Voltage drop (mV) after 1 h (4 samples):	N/A					
et let	Voltage drop of two inseparable joints	N/A					
Tr. Mrs.	Number of cycles:	m, m -					
EK WILLEK V	Voltage drop (mV) after 10th alt. 25th cycle (4 samples):	N/A					
- INLIEK MA	Voltage drop (mV) after 50th alt. 100th cycle (4 samples):	N/A					
TEX SIE	After ageing, voltage drop (mV) after 10th alt. 25th cycle (4 samples):	N/A					
TEX TEX	After ageing, voltage drop (mV) after 50th alt.  100th cycle (4 samples):	N/A					
(15.6)	Terminals and connections for external wiring	N/A					
(15.6.1)	Conductors	N/A					
21/2 21/	Terminal size and rating	N/A					
15.6.2	Mechanical tests	N/A					

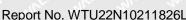
Page 36 of 36

IEC 61347-2-11

### Report No. WTU22N10211826L

Clause	Requirement + Test					r, m	Result	Result - Remark			
(15.6.2.1)	Pull test spring-type terminals or welded connections (4 samples); pull (N):								N/A		
(15.6.2.2) Pull test pin or tab terminals (4 samples); pull (N)								N/A			
(15.6.3)	Electrical tests								N/A		
et et	Tests according 15.6.3.1 + 15.6.3.2 in IEC 60598-1								N/A		
(15.6.3.1) (15.6.3.2) TABLE: Contact resistance test / Heating tests								N/A			
	Voltag	e drop (n	nV) after	1 h	WILL	Mr.	The	2/1.	20,		_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	CENT	CLEA	WITE	alere .	Mr.	16 1	, ,	d		J
Voltage drop of two inseparable joints						21/2	10/2				
Voltage drop after 10th alt. 25th cycle									y- 161		
The 1	Ma	ax. allowe	ed voltag	e drop (r	nV)	: <u>:</u> (	ik nije	MILIE	WILL	Mer	_
terminal 1			2	3	4	5	6	7	8	9	10
voltage drop	(mV)	,		d	LITE!	CLIER	MITE	WILL.	anti.	10	
The str	Vo	ltage dro	p after 5	0th alt. 1	00th cyc	е		13/17	a ext	TEX	JEK .
	Ma	ax. allowe	ed voltag	e drop (r	nV)	:					_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	.+	to.	CEX IN	TET IN			11/1	4	77	
it outer a	Co	ontinued a	ageing: v	oltage d	rop after	10th alt.	25th cyc	le 💉	LIEN	CLIE	MITE
	Ma	ax. allowe	ed voltag	e drop (r	nV)						_
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop (mV)		JEH	MUTER	Will	ant.		n 1			t	
ALTE WALTE	Co	ontinued a	ageing: v	oltage d	rop after	50th alt.	100th cy	cle	JEE WI	ie. W	in an
Max. allowed voltage drop (mV):								_			
terminal		1	2	3	4	5	6	7	8	9	10
voltage drop	(mV)	TEN ST	I AND	. "M.	21/2	24	70	- L		<u>at</u>	TEX
10 .00	, m,	20,			- 3	100	465	3		100	" The

===== End of Report =====





		rago roi zo ropoit ito:	W102211102110202	
CLIER	Attachment 1: IEC 60598-1			
Clause	Requirement + Test	Result - Remark	Verdict	

Attachment Form No: WSL-605981A-05A				
3 MARKING P				
3.2	Mandatory markings	THE THE LITE WITE IN	P	
<u> </u>	Position of the marking		P	
VELEN OU	Format of symbols/text	EK LIET ALIEN MIENNI	Р	
3.3	Additional information	710 711 711	P	
MILE	Language of instructions	SLIET WILL WHILE WHILE	Р	
3.3.1	Combination luminaires		N/A	
3.3.2	Nominal frequency in Hz	MITE WILL WALL WALL	N/A	
3.3.3	Operating temperature	a state of	P	
3.3.5	Wiring diagram	ter mi mi mi mi	Р	
3.3.6	Special conditions	at the tilt the	N/A	
3.3.7	Metal halide lamp luminaire – warning	Mer Mer Mer Mer	N/A	
3.3.8	Limitation for semi-luminaires	LEK TEK LIEK SLITER	N/A	
3.3.9	Power factor and supply current	Wer any any	N/A	
3.3.10	Suitability for use indoors	alifer mire a	P	
3.3.11	Luminaires with remote control		N/A	
3.3.12	Clip-mounted luminaire – warning	E TE WITH MITE WAI	N/A	
3.3.13	Specifications of protective shields	711 721 2	N/A	
3.3.14	Symbol for nature of supply	ALTER OLIE WALTE WALTE	N/A	
3.3.15	Rated current of socket outlet	The state of	N/A	
3.3.16	Rough service luminaire	CLIEB WILL MILL MALL	N/A	
3.3.17	Mounting instruction for type Y, type Z and some type X attachments	Type X	TEK P	
3.3.18	Non-ordinary luminaires with PVC cable	The The Table	N/A	
3.3.19	Protective conductor current in instruction if applicable	MULTER MILIES WHITE MALE	N/A	
3.3.20	Provided with information if not intended to be mounted within arm's reach	MUTER WHITER WHITER WHITE	N/A	
3.3.21	Non replaceable and non-user replaceable light sources information provided	NITER MILER MILER WHITER	N/A	
3.3.22	Controllable luminaires, classification of insulation provided	FER STEEL STEEL STEEL STEEL	EX P	
3.3.23	Luminaire without controlgear provided with necessary information for selection of appropriate component	t whitek whitek whitek	N/A	
3.3.24	If not supplied with terminal block, information on the packaging	TEX TEX STEX STEE	N/A	



Page 2 of 20 Report No. WTU22N1021182		
and the sale	Attachment 1: IEC 60598	-1 the left little little of
Clause	Requirement + Test	Result - Remark Verd
Liter Mil	it with mut my my my the	the little with mile with well
3.4	Test with water	n P
er write	Test with hexane	THE STEE WITH WITH ME P
	Legible after test	P
Maria .	Label attached	THE MITTER WAITE WITE WE EN
4	CONSTRUCTION	P
4.2	Components replaceable without difficulty	M. M. D
4.3	Wireways smooth and free from sharp edges	THE STATE SITE WITH SIND
4.4	Lampholders	N/A
4.4.1	Integral lampholder	N/A
4.4.2	Wiring connection	N/A
4.4.3	Lampholder for end-to-end mounting	N/A
4.4.4	Positioning	N/A
Mr. Marie	- pressure test (N):	the sure while while -
iek naite	After test the lampholder comply with relevant standard sheets and show no damage	N/A
MALTER.	After test on single-capped lampholder the lampholder have not moved from its position and show no permanent deformation	N/A
. Test	- bending test (N):	# 18 S
ar an	After test the lampholder have not moved from its position and show no permanent deformation	N/A
4.4.5	Peak pulse voltage	N/A
4.4.6	Centre contact	N/A
4.4.7	Parts in rough service luminaires resistant to tracking	N/A
4.4.8	Lamp connectors	N/A
4.4.9	Caps and bases correctly used	N/A
4.4.10	Light source for lampholder or connection according IEC 60061 not connected another way	N/A
4.5	Starter holders	N/A
- Miles	Starter holder in luminaires other than class II	In the sure of N/A
t the	Starter holder class II construction	N/A
4.6	Terminal blocks	mit we we VIN
TEX	Tails	L J J J N/A
11. "11	Unsecured blocks	N/A
4.7	Terminals and supply connections	A A A A ST ST N/A
4.7.1	Contact to metal parts	an an N/A
4.7.2	Test 8 mm live conductor	N/A



Page 3 of 20

ال المساور	Attachment 1: IEC 60598		the same
Clause	Requirement + Test	Result - Remark	Verdict
المال <mark>ة المالة</mark>	" were mer my my the left to	H STER STER WALTER	antite mer
ائ ر	Test 8 mm earth conductor	711 25	N/A
4.7.3	Terminals for supply conductors	LIER WILL WILL	N/A
4.7.3.1	Welded method and material	n, n,	N/A
Will !	- stranded or solid conductor	LIFE CHIEF WHITE WA	N/A
- A+	- spot welding		N/A
Wer an	- welding between wires	ER WILL MUSE	N/A
at a	- Type Z attachment	a at at	N/A
, mer	- mechanical test according to 15.6.2	INLITE WALL WALL	N/A
y Jet	- electrical test according to 15.6.3	at at alt	N/A
24c	- heat test according to 15.6.3.2.3 and 15.6.3.2.4	MILL MULL MULL W	N/A
4.7.4	Terminals other than supply connection	at the set	N/A
4.7.5	Heat-resistant wiring/sleeves	The Mary Mary Mary	N/A
4.7.6	Multi-pole plug	st let set se	N/A
20,	- test at 30 N	me me	N/A
4.8	Switches	TEX TEX STEEL	NITE IN P
40	- adequate rating	Mer My My	Р
MILLE	- adequate fixing	ALTER OF STIFF OF	LIE NILLE P.W
4	- polarized supply	1 1 1 1	N/A
Write M	- compliance with IEC 61058-1 for electronic switches	E WALTE WILLIAM WALT	N/A
4.9	Insulating lining and sleeves	t let let liet	THE PE
4.9.1	Retainment	Mr. Mr. M.	Р
IK WITE	Method of fixing:	Glue	CITE OU P
4.9.2	Insulated linings and sleeves:	me me me	N/A
WILLEY	Resistant to a temperature > 20 °C to the wire temperature or	LIER WALTER WALTER WA	N/A
ای <sup>کاران</sup> درا	a) & c) Insulation resistance and electric strength	at let let lik	N/A
L 20	b) Ageing test. Temperature (°C):	mer me m	N/A
4.10	Double or reinforced insulation	- TEK TEK TIEK	N/A
4.10.1	No contact, mounting surface – accessible metal parts – wiring of basic insulation	The tex tex	N/A
41	Safe installation fixed luminaires	WILL MULL MULL M	N/A
J. Lifet	Capacitors and switches	at all all a	N/A
	Interference suppression capacitors according to IEC 60384-14		N/A
4.10.2	Assembly gaps:	WALL WALL WILL	N/A
et let	- not coincidental	1 1 1	N/A



# Page 4 of 20

10 Ch	Attachment 1: IEC 60598-1	4/1/2
Clause	Requirement + Test Result - Remark	Verdic
713. 24cr		NI/A
100	- no straight access with test probe	N/A
4.10.3	Retainment of insulation:	N/A
<del></del>	- fixed	N/A
Mr.	- unable to be replaced; luminaire inoperative	N/A
- (4)	- sleeves retained in position	N/A
ne in	- lining in lampholder	N/A
4.10.4	Protective impedance device	N/A
	Double or reinforced insulation bridged by appropriate and at least two resistors or two Y2 capacitors or one Y1 capacitor	N/A
40	Y1 or Y2 capacitors comply with IEC 60384-14	N/A
ALL LEE	Resistors comply with test (a) in 14.1 of IEC 60065	N/A
4.11	Electrical connections and current-carrying parts	Pie
4.11.1	Contact pressure	N/A
4.11.2	Screws:	N/A
24,	- self-tapping screws	N/A
RUTER	- thread-cutting screws	N/A
4.11.3	Screw locking:	N/A
WITE N	- spring washer	N/A
	- rivets	N/A
4.11.4	Material of current-carrying parts	n P
4.11.5	No contact to wood or mounting surface	Р
4.11.6	Electro-mechanical contact systems	N/A
4.12	Screws and connections (mechanical) and glands	P
4.12.1	Screws not made of soft metal	P
et .	Screws of insulating material	N/A
her an	Torque test: torque (Nm); part See (4.12.1) of IEC 61347-2-11	P
rest re	Torque test: torque (Nm); part:	N/A
'm'	Torque test: torque (Nm); part:	N/A
4.12.2	Screws with diameter < 3 mm screwed into metal	ďΡ
4.12.4	Locked connections:	N/A
Clar	- fixed arms; torque (Nm):	N/A
21, 24,	- lampholder; torque (Nm):	N/A
TER ST	- push-button switches; torque 0,8 Nm:	N/A
4.12.5	Screwed glands; force (Nm)	N/A
4.13	Mechanical strength	N.P



N/A

#### Page 5 of 20

LIEF	Attachment 1: IEC 60598-1			
Clause	Requirement + Test	Result - Remark	Verdict	
liter and	in mi mi mi mi mi	EX TEX STEX OUTER SO	Lie Mili	
4.13.1	Impact tests:	74. 74. 20. 1	, P	
E. WILL	- fragile parts; energy (Nm):	TER STEE WILLIAMS	N/A	
LIFEK	- other parts; energy (Nm):	Metal enclosure, Screen surface: 0.35Nm	TEKP NIN	
<i>'</i> n, '	1) live parts	her my my	Р	
NLTER NI	2) linings	LEY STEX STEX WITER OF	P.C.	
4	3) protection	211 211 211	Р	
TE MILT	4) covers	TEX SITE OLIES WI	III P	
4.13.2	Metal parts have adequate mechanical strength	111 111 11	Р	
4.13.3	Straight test finger	LIER STIER WILL MILE	JAN P.N	
4.13.4	Rough service luminaires	In In	N/A	
wines w	- IP54 or higher	TER MITE WALTE WALTE	N/A	
jet i	a) fixed	· · · · · · · · · · · · · · · · · · ·	N/A	
in the	b) hand-held	MILE WILL MALL WILL WILL	N/A	
et le	c) delivered with a stand	at the state of	N/A	
'AL.	d) for temporary installations and suitable for mounting on a stand	White white white white	N/A	
4.13.6	Tumbling barrel	Power supply	W Pul	
4.14	Suspensions, fixings and means of adjusting	- 1 C 1/4	→ P	
4.14.1	Mechanical load:		P	
ret x	A) four times the weight	0.252 Kg * 4 = 1.008 Kg	P	
in me.	B) torque 2,5 Nm	WITE WILL ME AND	N/A	
K TEK	C) bracket arm; bending moment (Nm):	a state of	N/A	
7115	D) load track-mounted luminaires	WILL MUEL MUEL MULT	N/A	
WALTER	E) clip-mounted luminaires, glass-shelve. Thickness (mm)	LIEN MITER MITER WHITER	N/A	
at the	Metal rod. diameter (mm):		N/A	
ver and	Fixed luminaire or independent control gear without fixing devices	E MULLE MULLE MULE W	N/A	
4.14.2	Load to flexible cables	t tex street writes and	N/A	
L X	Mass (kg):	My My and	6 -	
WELL	Stress in conductors (N/mm²):	ALTER OLITER MOLTER MOLTER	N/A	
, et	Mass (kg) of semi-luminaire:	in an in the	N/A	
الاستعادية	Bending moment (Nm) of semi-luminaire:	WEEK WILL SUITE WHILL	N/A	
4.14.3	Adjusting devices:	a state	N/A	
in and	- flexing test; number of cycles:	and while while when we	N/A	
.1 .1				

- strands broken ....:



# Page 6 of 20

40 m	Attachment 1: IEC 60598	Charles and the state of the st	r. alex
Clause	Requirement + Test	Result - Remark	Verdict
The The	MULTING MI MY TO THE TANK	H RIFE WILL WALLE WALL	WILL
d 2	- electric strength test afterwards	10 10	N/A
4.14.4	Telescopic tubes: cords not fixed to tube; no strain on conductors	White White White Whit	N/A
4.14.5	Guide pulleys	LEK TEK LIEK LIEK	N/A
4.14.6	Strain on socket-outlets	in the ships	N/A
4.15	Flammable materials	EF JEF JEF WIFE WI	Р
	- glow-wire test 650°C:	The M. M.	Р
TENNIT	- spacing ≥30 mm	LIER WITER WHITE WHITE	N/A
+ 1+	- screen withstanding test of 13.3.1	Mr. Mr.	N/A
MILL	- screen dimensions	RUTER MUTEL MALTE WALL	N/A
A	- no fiercely burning material		P
Mur. A	- thermal protection	THE WALTE WALL WALL ON	N/A
All S	- electronic circuits exempted	a state of the	N/A
4.15.2	Luminaires made of thermoplastic material with lamp of	control gear	N/A
et de	a) construction	A AN ANY THE	N/A
Me	b) temperature sensing control	write and with whi	N/A
LITER	c) surface temperature	the little	N/A
4.16	Luminaires for mounting on normally flammable surfaces		Р
_UTEK	No lamp control gear:	(compliance with Section 12)	N/A
	Provided with adaptor for a track meet the requirements for direct mounting on normally flammable surfaces	THE WITER WITER WITER	N/A
4.16.1	Lamp control gear spacing:	Th. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A
MILL	- spacing 35 mm	ALTER WALTE WALT WALL	N/A
et.	- spacing 10 mm	the state of the s	N/A
4.16.2	Thermal protection:	RITER WALL WALL WILL W	N/A
All .	- in lamp control gear	a state of the	N/A
ies in	- external	Write Muty Aug Aug	N/A
CENT OF	- fixed position	at at at all	N/A
701	- temperature marked lamp control gear	MILL MAL MA MA	N/A
4.16.3	Design to satisfy the test of 12.6	(see clause 12.6)	N/A
4.17	Drain holes	Mary Mary The All	N/A
SLITER I	Clearance at least 5 mm	EX TEX TEX WITE O	N/A
4.18	Resistance to corrosion	i mi mi mi m	N/A
4.18.1	- rust-resistance	t the the wife	N/A
4.18.2	- season cracking in copper	Mr. M. M. M.	N/A
4.18.3	- corrosion of aluminium	THE THE LIFE WITE	N/A



# Page 7 of 20

Clause	Dequirement - Test	vic Vordio
Clause	Requirement + Test Result - Rema	rk Verdic
4.19	Ignitors competible with hallost	N/A
4.19	Ignitors compatible with ballast  Rough service vibration	N/A
4.20 <b>4.21</b>	Protective shield	- 11 - 12 - 12 - 12 - 12 - 12 - 12 - 12
		N/A
4.21.1	Shield fitted if tungsten halogen lamps or metal halide lamps	N/A
Willey OW	Shield of glass if tungsten halogen lamps	N/A
4.21.2	Particles from a shattering lamp not impair safety	N/A
4.21.3	No direct path	N/A
4.21.4	Impact test on shield	N/A
MILL	Glow-wire test on lamp compartment:	N/A
4.22	Attachments to lamps not cause overheating or damage	N/A
4.23	Semi-luminaires comply Class II	N/A
4.24	Photobiological hazards	N/A
4.24.1	No excessive UV radiation if tungsten halogen lamps and metal halide lamps (Annex P)	N/A
4.24.2	Retinal blue light hazard	N/A
MALTER	Class of risk group assessed according to IEC/TR 62778:	MILITER WALTER OF -
. Et	Luminaires with Ethr:	N/A
11, 11,	a) Fixed luminaires	N/A
16th J	- distance x m, borderline between RG1 and RG2:	ot of N/A
71/2	- marking and instruction according 3.2.23	N/A
y JEH	b) Portable and handheld luminaires	N/A
THE THE	- marking according 3.2.23 if RG1 exceeded at 200 mm according to IEC/TR 62778	N/A
WILL W	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	N/A
4.25	Mechanical hazard	P
CER MILITE	No sharp point or edges	ALTE INTERNATION
4.26	Short-circuit protection	N/A
4.26.1	Adequate means of uninsulated accessible SELV parts	unit unit N/A
4.26.2	Short-circuit test with test chain according 4.26.3	N/A
	Test chain not melt through	N/A
Life's WAL	Test sample not exceed values of Table 12.1 and 12.2	N/A
4.27	Terminal blocks with integrated screwless earthing contacts	N/A



Page 8 of 20

10 12 11 11 11 11 11 11 11 11 11 11 11 11	Attachment 1: IEC 60598-1	745 445
Clause	Requirement + Test Result - Remark	Verdict
rize alve	" while whe will be the title little white	Wry. Wer.
4 2	Test according Annex V	N/A
W. C.	Pull test of terminal fixing (20 N)	N/A
	After test, resistance $< 0.05 \Omega$	N/A
White !	Pull test of mechanical connection (50 N)	N/A
1	After test, resistance $< 0.05 \Omega$	N/A
	Voltage drop test, resistance $< 0.05 \Omega$	N/A
4.28	Fixing of thermal sensing control	N/A
2/10	Not plug-in or easily replaceable type	N/A
y Jet	Reliably kept in position	N/A
'lik	No adhesive fixing if UV radiations from a lamp can degrade the fixing	N/A
11/10 11	Not outside the luminaire enclosure	N/A
Let 3	Test of adhesive fixing:	N/A
Ver Me	Max. temperature on adhesive material (°C):	an -
EK JE	100 cycles between t min and t max	N/A
dir.	Temperature sensing control still in position	N/A
4.29	Luminaires with non-replaceable light source	N/A
The .	Not possible to replace light source	N/A
MULTER ON	Live part not accessible after parts have been opened by hand or tools	N/A
4.30	Luminaires with non-user replaceable light source	N/A
* Th	If protective cover provide protection against electric shock and marked with "caution, electric shock risk" symbol:	
Mrs	Minimum two fixing means	N/A
4.31	Insulation between circuits	y AP
21/2 Z	Circuits insulated from LV supply fulfil requirements according 4.31.1 – 4.31.3	P
ner was	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	NUTER WALTER
4.31.1	SELV circuits	N/A
Mer	Used SELV source	N/A
Att.	Voltage ≤ ELV	N/A
21/2, 21	Insulating of SELV circuits from LV supply	N/A
LTEK WIL	Insulating of SELV circuits from other non SELV circuits	N/A
., .,	Insulating of SELV circuits from FELV	N/A



Page 9 of 20

الع شاعل	Attachment 1: IEC 60598-1		
Clause	Requirement + Test Result - Remark	Verdict	
The Mil	The state of the s	W.F.	
+ 10	Insulating of SELV circuits from other SELV circuits	N/A	
AUT.	SELV circuits insulated from accessible parts according Table X.1	N/A	
	Plugs not able to enter socket-outlets of other voltage systems	N/A	
INLTEK WIN	Socket outlets does not admit plugs of other voltage systems	N/A	
TEK MIT	Plugs and socket-outlets does not have protective conductor contact	N/A	
4.31.2	FELV circuits	N/A	
Metro	Used FELV source	N/A	
*	Voltage ≤ ELV	N/A	
William W	Insulating of FELV circuits from LV supply	N/A	
SLIEK IN	FELV circuits insulated from accessible parts according Table X.1	N/A	
Et JE	Plugs not able to enter socket-outlets of other voltage systems	N/A	
- TEX	Socket outlets does not admit plugs of other voltage systems	N/A	
ALC:	Socket-outlets does not have protective conductor contact	N/A	
4.31.3	Other circuits	Р	
ITEK MIT	Other circuits insulated from accessible parts according Table X.1	Pel	
The Think	Class II construction with equipotential bonding for protection against indirect contacts with live parts:	N/A	
20	- conductive parts are connected together	N/A	
CLER	- test according 7.2.3	N/A	
The s	- conductive part not cause an electric shock in case of an insulation fault	N/A	
Ver. 100	- equipotential bonding in master/slave applications	N/A	
SEK WALTE	- master luminaire provided with terminal for accessible conductive parts of slave luminaires	N/A	
t set	- slave luminaire constructed as class I	N/A	
4.32	Overvoltage protective devices	N/A	
, et	Comply with IEC 61643-11	N/A	
21/2, 21/	External to controlgear and connected to earth:	N/A	
TEN S	- only in fixed luminaires	N/A	
20	- only connected to protective earth	N/A	



# Page 10 of 20

Attachment 1: IEC 60598-1			EK WITE WITE
Clause	Requirement + Test	Result - Remark	Verdict

5	EXTERNAL AND INTERNAL WIRING		P
5.2	Supply connection and external wiring		UNLIP UNLIP
5.2.1	Means of connection:	Power supply	Р
Maria a	Outdoor luminaire has not PVC insulated external wiring if not class III or SELV ≤ 25 V a.c./60 V d.c. or protected from outdoor environment	NITER WHITE WHITE W	N/A
5.2.2	Type of cable:	See Annex 1	n A
3EK - 2178	Nominal cross-sectional area (mm²):	See Annex 1	TEN NP
701	Cables equal to IEC 60227 or IEC 60245	Mur. Mur. Mur.	ъ Р
5.2.3	Type of attachment, X, Y or Z	Type X	THE RITE
5.2.5	Type Z not connected to screws	mi mi m a	N/A
5.2.6	Cable entries:	LEK TEK TEK O	TE PA
10, 2	- suitable for introduction	y the my my	Р
LIFE WAL	- adequate degree of protection	CF STEP STEP ONLY	P.
5.2.7	Cable entries through rigid material have rounded edges	et tet tet	N/A
5.2.8	Insulating bushings:	Mer Mer Mer	N/A
, LIEB	- suitably fixed	at of little	N/A
4, ,	- material in bushings	2 1 1 1	N/A
WITER ON	- material not likely to deteriorate	En The Line of	N/A
	- tubes or guards made of insulating material	10 10 20	N/A
5.2.9	Locking of screwed bushings	I TER STEE WITE	N/A
5.2.10	Cord anchorage:		Р
MILT	- covering protected from abrasion	LIER OLIER MITE	WILL THE P.
*	- clear how to be effective	10 10 10	→ P
Mr. M	- no mechanical or thermal stress	LIER NITE WALLE WA	F. W. Bu
d .	- no tying of cables into knots etc.		+ + P
ic m	- insulating material or lining	TER WITE WALL WALL	AL JP
5.2.10.1	Cord anchorage for type X attachment:	i se de de	P*
" ne	a) at least one part fixed	WILL MULL WALL	An D
t The	b) types of cable	A ST SET	THE THE
du.	c) no damaging of the cable	anti anti anti a	Р
LIFE	d) whole cable can be mounted	at at the	TEN PR
20, 20,	e) no touching of clamping screws	in mer mer m.	N/A
رزيد المراز	f) metal screw not directly on cable	et let let let	N/A
2,	g) replacement without special tool	Mrs. Mrs. Mrs.	P
Er RITE	Glands not used as anchorage	Left left lifet	N/A



# Page 11 of 20

white of	Attachment 1: IEC 60598	3-1 - 1	E JALLE OAL
Clause	Requirement + Test	Result - Remark	Verdict
TILE MULL	White Man My My My The Little Little Committee	et tet tier wie	WILL WULL
1 1	Labyrinth type anchorages	201, 201, 20	N/A
5.2.10.2	Adequate cord anchorage for type Y and type Z attachment	N/A	
5.2.10.3	Tests:	et set set a	N/A
10, 0	- impossible to push cable; unsafe	in my my m	N/A
WITE W	- pull test: 25 times; pull (N):	et itet itet sit	N/A
	- torque test: torque (Nm):	The The The	N/A
ITE NALTE	- displacement ≤ 2 mm	TEX LITER SLIFE	N/A
1 A	- no movement of conductors	The The The	N/A
anti	- no damage of cable or cord	LIER SLIER WITE S	N/A
d	- function independent of electrical connection	10 20 2	N/A
5.2.11	External wiring passing into luminaire	TEL RITER SPLIE SUN	III PI
5.2.12	Looping-in terminals		N/A
5.2.13	Wire ends not tinned	The Wife White White	2/12 2/1P
et et	Wire ends tinned: no cold flow	* * * *	N/A
5.2.14	Mains plug same protection	Write Write Muri	n P
- TEX	Class III luminaire plug	the second second	N/A
my 1	No unsafe compatibility	The There is an	N/A
5.2.16	Appliance inlets (IEC 60320)		N/A
10, 10,	Installation couplers (IEC 61535)	in the the	N/A
LIFER WALT	Other appliance inlet or connector according relevant IEC standard	anifek whitek whitek	N/A
5.2.17	No standardized interconnecting cables properly assembled	SLITER MITTER MALTER	N/A
5.2.18	Used plug in accordance with	70 X	At P
Mrr. N	- IEC 60083	Lie Will My My	All Pile
all a	- other standard	1 1 A A	N/A
5.3	Internal wiring	ile intil water water	N/A
5.3.1	Internal wiring of suitable size and type	A ST ST	N/A
- Oles	Through wiring	WILL AND AND	N/A
t Jet	- not delivered/ mounting instruction	at alt set	N/A
1/1 .	- factory assembled	our mr. mr. m	N/A
ALTEK O	- socket outlet loaded (A):	at at at a	N/A
20, 20,	- temperatures:	(see Annex 2)	N/A
LITER OUT	Green-yellow for earth only	of the the tree	N/A
5.3.1.1	Internal wiring connected directly to fixed wiring	Mur Mr Mr	N/A
Et Life	Cross-sectional area (mm²):	LEK LEK LEK	N/A



### Page 12 of 20

Attachment 1: IEC 60598-1					
Clause	Requirement + Test	Result - Remark	Verdict		
LITER MAL	They may may any and	EX TEX STEX WITE AND	ir. Write		
	Insulation thickness (mm):	24 24 24	N/A		
er white	Extra insulation added where necessary	TEX STEE WITE WHITE	N/A		
5.3.1.2	Internal wiring connected to fixed wiring via internal current-limiting device		N/A		
MELL	Cross-sectional area (mm²):	LIER OLIER WILL WALL	N/A		
5.3.1.3	Double or reinforced insulation for class II	n the second	N/A		
5.3.1.4	Conductors without insulation	LEE MITER MALTE WALL WA	N/A		
5.3.1.5	SELV current-carrying parts	a state of	N/A		
5.3.1.6	Insulation thickness other than PVC or rubber	E WILL MULL MULL MULL	N/A		
5.3.2	Sharp edges etc.	at the fifth	N/A		
21/12	No moving parts of switches etc.	WILL MULL MULL MULL	N/A		
C. E.	Joints, raising/lowering devices	at at alt of	N/A		
1/15 1	Telescopic tubes etc.	With the sure of the sure of	N/A		
JER N	No twisting over 360°	at all the the sa	N/A		
5.3.3	Insulating bushings:				
SER OLITE	- suitable fixed	t get get light oute	N/A		
20	- material in bushings	Wer The The An	N/A		
MITE	- material not likely to deteriorate	ALTER MITER MITER	N/A		
4	- cables with protective sheath	7 1 1	N/A		
5.3.4	Joints and junctions effectively insulated	of the liter of the state of	N/A		
5.3.5	Strain on internal wiring	- 14 20 A	N/A		
5.3.6	Wire carriers	E ALTER WALTER WALTER WALTER	N/A		
5.3.7	Wire ends not tinned	The state of the s	N/A		
MILL	Wire ends tinned: no cold flow				
5.4	Test to determine suitability of conductors having a reduced cross-sectional area				
ALTEK ON	Under test the temperature of the luminaire wiring insulation not exceed the limits stated in Table 12.2	(see Annex 2)	N/A		
1, 2,	No damage to luminaire wiring after test	The Me Me Me	N/A		

8	PROTECTION AGAINST ELECTRIC SHOCK		
8.2.1	Live parts not accessible	A RITER WITE WITE BURY	
LIEK	Basic insulated parts not used on the outer surface without appropriate protection	THE SLIFE WEEK POLICE	
TIEK MU	Basic insulated parts not accessible with standard test finger on portable, settable and adjustable luminaires	N/A N/A	
EK MIT	Basic insulated parts not accessible with Ø 50 mm probe from outside, other types of luminaires	EK SLIEK SLIEK STUDE	



Page 13 of 20

Attachment 1: IEC 60598-1				
Clause	Requirement + Test	Result - Remark	Verdict	
LITEER SIRLY	the way and any and the	IN THE THE WITER	MITE WALL	
	Lamp and starterholders in portable and adjustable luminaires comply with double or reinforced insulation requirements	NATES AND SUBSTIES OF	N/A	
WALTER	Basic insulation only accessible under lamp or starter replacement	Stet stilet satisfain	N/A	
A	Protection in any position	. 10	_ P	
Write and	Double-ended tungsten filament lamp	EX SITES WITE WITE	N/A	
21- 2	Insulation lacquer not reliable	W W	N/A	
in which	Double-ended high-pressure discharge lamp	WITE WITE WALL	N/A	
ik natek	Relevant warning according to 3.2.18 fitted to the luminaire	THE THE WITH WITH	N/A	
8.2.2	Portable luminaire adjusted in most unfavourable position	et tet tet st	N/A	
8.2.3.a	Class II luminaire:	The Mar May An	N/A	
ALTER WAY	- basic insulated metal parts not accessible during starter or lamp replacement	* WHITE MALTER WALTER	N/A	
IEK WALTE	- basic insulation not accessible other than during starter or lamp replacement	CLIER WIFER WRITER	N/A	
MITEK	- glass protective shields not used as supplementary insulation	at all the	N/A	
8.2.3.b	BC lampholder of metal in class I luminaires shall be earthed		N/A	
8.2.3.c	SELV circuits with exposed current carrying parts:			
itek mit	Ordinary luminaire:	+ TEX TEX TIES	N/A	
	- voltage under load (V):	The Mr. In	N/A	
N.LTE	- no-load voltage (V):	THE SHE STEE	N/A	
	- touch current if applicable (mA):	m, m, m,	N/A	
MILITER ST	One conductive part insulated if required	TEX LIEK SLIER IN	N/A	
<u>.</u>	Other than ordinary luminaire:	717 111 111	N/A	
VII. W	- nominal voltage (V):	EX SLIET OLIER WALE	N/A	
t	Class III luminaire only for connection to SELV	7112 711 71	N/A	
, VINCE	Class III luminaire not provided with means for protective earthing	White white white	N/A	
8.2.4	Portable luminaire has protection independent of supporting surface	ALTER WALTER WALTER ON	N/A	
8.2.5	Compliance with the standard test finger or relevant probe	IEF WHIEF WHIEF WHI	ER WILL BUT	
8.2.6	Covers reliably secured	e at at at	P.	
8.2.7	Luminaire other than below with capacitor > 0,5 μF not exceed 50 V 1 min after disconnection	Murry Murry Murry	N/A	



# Page 14 of 20

	Attachment 1: IEC 60598-1					
Clause	Requirement + Test	Result - Remark	Verdict			
	Portable luminaire with capacitor > 0,1 μF (0.25) not exceed 34 V 1 s after disconnection	et jet jet jet	N/A			
- WALTER	Other luminaires with capacitor $>$ 0,1 $\mu$ F (0.25) with plug and track adaptors not exceed 60 V 5 s after disconnection	TEX STEE WIFE WILL	N/A			

12	ENDURANCE TEST AND THERMAL TEST				
TEK MALT	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 1.13				
12.2	Selection of lamps and ballasts				
WILL	Lamp used according Annex B	(Lamp used see Annex 2)	_		
100	Controlgear if separate and not supplied	(Controlgear used see Annex 2)	_		
12.3	Endurance test	THE WITE WILL WALL WAS	Р		
All S	a) mounting-position:	Acc. to user manual	_		
e 24.	b) test temperature (°C):	50	_		
EK JE	c) total duration (h):	240	_		
111	d) supply voltage (V):	264			
WALTER	d) if not equipped with controlgear, constant voltage/current (V) or (A):	THE WALTER W	_		
JEN.	e) luminaire ceases to operate	the state of	_		
12.3.2	After endurance test:		Р		
Clerk CL	- no part unserviceable	of the text the state	Р		
20	- luminaire not unsafe	Mer Mer My My	Р		
N. INLIE	- no damage to track system	TEK ITEK SLIFE MITER	N/A		
	- marking legible	m m m	P		
MLITE.	- no cracks, deformation etc.	TEX TEX STEE WITE W	Pu		
12.4	Thermal test (normal operation)	(see Annex 2)	Р		
12.5	Thermal test (abnormal operation)	(see Annex 2)	N/A		
12.6	Thermal test (failed lamp control gear condition):	41 4 4 A	N/A		
12.6.1	Through wiring or looping-in wiring loaded by a current of (A):	MALIER MALTER MALIE MALIE	_		
	- case of abnormal conditions:	TEX SITEX WITEX WITEX	_		
	- electronic lamp control gear		N/A		
Write W	- measured winding temperature (°C): at 1,1 Un:	JEK SLIEK WITER WHITE WAS	_		
LIEK MY	- measured mounting surface temperature (°C) at 1,1 Un:	t tet the nites with	N/A		
اد ب	- calculated mounting surface temperature (°C):	Mr. In An	N/A		
e "Vile	- track-mounted luminaires	THE THE LITE WITE	N/A		



	Page 15 of 20	Report No. WTU22N10211826L
CLIFER	Attachment 1: IEC 60598-1	TEX LIEK NITER MITER WALT
Clause	Requirement + Test Resu	ult - Remark Verdict
ALTER SHILL	the way and any any and the left	TEX TIES WITH WITH WITH
12.6.2	Temperature sensing control	N/A
e unite	- case of abnormal conditions:	et nitet milet milet -
,	- thermal link	N/A
ر المالي	- manual reset cut-out	N/A
, e.t	- auto reset cut-out	N/A
	- measured mounting surface temperature (°C):	N/A
LEK JE	- track-mounted luminaires	N/A
12.7	Thermal test (failed lamp control gear in plastic luminai	res): N/A
12.7.1	Luminaire without temperature sensing control	N/A
12.7.1.1	Luminaire with fluorescent lamp ≤ 70W	N/A
JIEK .	Test method 12.7.1.1 or Annex W:	18t 18t 18th 18 -
14 20	Test according to 12.7.1.1:	N/A
LIFE OU	- case of abnormal conditions:	THE THE STEE STEE
	- Ballast failure at supply voltage (V):	- m - m -
ier miter	- Components retained in place after the test	N/A
	- Test with standard test finger after the test	N/A
MALTER	Test according to Annex W:	N/A
1	- case of abnormal conditions:	
WILL M	- measured winding temperature (°C): at 1,1 Un:	with with white will -
LIEK WALTE	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	TER STER WITER WITER -
EX INLIEX	- calculated temperature of fixing point/exposed part (°C):	* THE LIFE DUTER -
7	Ball-pressure test	N/A
12.7.1.2	Luminaire with discharge lamp, fluorescent lamp > 70W, tra	nsformer > 10 VA N/A
	- case of abnormal conditions:	
intitue whi	- measured winding temperature (°C): at 1,1 Un:	NITER MILE MINIT WIND -
JEK MITE	- measured temperature of fixing point/exposed part (°C): at 1,1 Un:	the state state and the
k Tek	- calculated temperature of fixing point/exposed part (°C):	t tit tit tit —
14,	Ball-pressure test:	N/A
12.7.1.3	Luminaire with short circuit proof transformers ≤ 10 VA	WALLET WALLET AND N/A
JEK J	- case of abnormal conditions:	st st st st -
7/1/6	- Components retained in place after the test	N/A
Et JET	- Test with standard test finger after the test	N/A



Р

Page 16 of 20

Report No. WTU22N10211826L

	Attachment 1: IEC 60598	8-1 4 64 50 50	in min		
Clause	Requirement + Test	Result - Remark	Verdict		
Tile Mil	The Man Man The The Title The	Ex Willy Willer Will All	MULL		
12.7.2	Luminaire with temperature sensing control		N/A		
Mill	- thermal link	Yes No			
	- manual reset cut-out:	Yes No No	_		
MUT.	- auto reset cut-out:	Yes No No	<i>y</i> —		
A Bit	- case of abnormal conditions:	and the set of	<u> </u>		
ir No. Au	- highest measured temperature of fixing point/ exposed part (°C)::	ter white main and an	_		
in when	Ball-pressure test::	" THE WALTER WALTER WALTER	N/A		
y	TER THE WIFE WITE WAITE WAS AND	The state of the s	All the		
9	RESISTANCE TO DUST AND MOISTURE		L P		
Alt.	If IP > IP 20 the order of tests as specified in clause 1	.12	John P		
9.2	Tests for ingress of dust, solid objects and moisture:				
A Fifth	- classification according to IP:	IP20	· —		
211	- mounting position during test:	Acc. to user manual	_		
iek aire	- fixing screws tightened; torque (Nm):	Cl. 9.2.0	_		
72	- tests according to clauses:	Wer Mr. M. M.	_		
MITE	- electric strength test afterwards	ALTER MITE	Port		
	a) no deposit in dust-proof luminaire	7 10 3	N/A		
MALTE W	b) no talcum in dust-tight luminaire	THE STATE OF THE SHALL WE	N/A		
LIEK OLI	c) no trace of water on current-carrying parts or on insulation where it could become a hazard	the text step with	N/A		
ek Jek	c.1) For luminaires without drain holes – no water entry	MUS AND AND AND AND	N/A		
7112	c.2) For luminaires with drain holes – no hazardous water entry	until whit will will	N/A		
Mir.	d) no water in watertight or pressure watertight luminaire	LITER WILLIE WILLIE WILL W	N/A		
William W.	e) no contact with live parts (IP 2X)	SEX LIEX SLIER WITE AND	P		
٠ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ	e) no entry into enclosure (IP 3X and IP 4X)	111 111	N/A		
AL ALLEY	e) no contact with live parts through drain holes and ventilation slots (IP3X and IP4X)	White White White White	N/A		
WALTER	f) no trace of water on part of lamp requiring protection from splashing water	MITER MALTER MALTER MALTER.	N/A		
Jet	g) no damage of protective shield or glass envelope	at the fifth the	N/A		
9.3	Humidity test 48 h	in Mure Aure Aure An	Р		
CIENT OF	TEL MITTE WALL WILL WITH THE TOTAL OF THE TO	et let let liet il	EL NITE		
10	INSULATION RESISTANCE AND ELECTRIC STREN	IGTH	Р		

10.2.1

Insulation resistance test



Page 17 of 20

LIER	Attachment 1: IEC 60598-1				
Clause	Requirement + Test	Result - Remark	Verdict		
LITER MIL	The war was an an an an	of the ties of the	TE WILL		
er te	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø	Metal foil	* -		
10,	Insulation resistance (MΩ):	See below	_		
, LITER	SELV	TER TER TER STEE	P		
20.	- between current-carrying parts of different polarity:	The the the	N/A		
WILLER AND	- between current-carrying parts and mounting surface	>100 MΩ	, Pu		
TEK MULL	- between current-carrying parts and metal parts of the luminaire	>100 MΩ	AND PER		
MUTER	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	INLIER WALTER WALTER	N/A		
CLIFFE	- Insulation bushings as described in Section 5:	THE THE LIES NUTER	N/A		
43, 4	Other than SELV	The Marie Marie	Р		
NITE NA	- between live parts of different polarity:	* THE STEE STEEL STEEL ST	N/A		
IEV NITE	- between live parts and mounting surface:	>100 M $\Omega$ (test with power supply)	EX PL		
- JEX	- between live parts and metal parts:	>100 M $\Omega$ (test with power supply)	Р		
m.	- between live parts of different polarity through action of a switch	a my my	N/A		
17 <sup>EX</sup> - 17	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	The state of the state of	N/A		
	- Insulation bushings as described in Section 5:	Mrs. Mrs. Mrs. Mrs.	N/A		
10.2.2	Electric strength test	LER TER TER STE	ĮΓP		
10.	Dummy lamp	mer and any	N/A		
CLITER .	Luminaires with ignitors after 24 h test	TEK TEK STEEK SLITER	N/A		
10° -	Luminaires with manual ignitors	is the the	N/A		
ALTER WA	Test voltage (V):	See below	Р		
	SELV	141 Au 12 12 1	P		
ie white	- between current-carrying parts of different polarity:	LIFE WITE WITE WAL	N/A		
k nliek	- between current-carrying parts and mounting surface	500 V	P		
T. Link	- between current-carrying parts and metal parts of the luminaire:	500 V	P		
nice and	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	t liet offet offet al	N/A		
at it	- Insulation bushings as described in Section 5:	1/12 1/11 1/20 1/20	N/A		
C. WILL	Other than SELV	TER STEE STEE SOUTH	Р		

Page 18 of 20

Report No. WTU22N10211826L

	Attachment 1: IEC 60598-1					
Clause	Requirement + Test	Result - Remark	Verdict			
ALTER AIRLY	Mary Mary Mary Mary Mary Company	the little little selfter south	WALLE			
1 1	- between live parts of different polarity:	The The The	N/A			
E. WILLE	- between live parts and mounting surface:	2960 V (test with power supply)	Р			
. ,t	- between live parts and metal parts:	2960 V (test with power supply)	Р			
MULL A	- between live parts of different polarity through action of a switch	LIER WHITE WHITE WHITE W	N/A			
unite wh	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	the multer multer mult	N/A			
The Market	- Insulation bushings as described in Section 5:	RETER MITTER MILL MALE	N/A			
10.3	Touch current or protective conductor current (mA).:	Touch current: 0.001 mA < 0.7 mA (Test with power supply)	NLTEP JU			

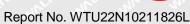
ANNEX 1	TABLE: Cr	itical components	s information			A P
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
et et	. 15th - 1	EX SLIER MITE	WILL MY	20, 20,	t	Et JEt
Description:	: See A	NNEX 1 of IEC 61	347-2-11	alifek olifek al	ALTE WALTE W	Vr. Mr. 1
- Let .	18 \ 18 °		4 2		1/1	CET TEXT I
Mrs. M.		Y/A	TEN STEP	CIE .	Were mer	21/2 21/2
All S	1 1 1 m	7 2	2 800		14 111	+ JEK JE
Description:	- 44		ek lifek ki	IEL WALLE WALLE	min min	The Marie
JEK JEK	11. 12.	The William Miles	211, 22,	1 to the	TEX TEX	JEK SUTER
. "	2, 1	4 24 28	- NIFE MITE	White White	Mrs. Mrs.	70, 70,
IN LITER .	NITE NALL	Mrs. Mrs.	20, 20,	et et	et let	LTER OLITER OF
Description:		et et	CITER MITE	Write Whis M	10 10	100
NITER IN	it with	with min	2	at at a	E TEK ST	alie and
24 2		Et Et	TEK WITE WI	in the the	11/2 11/2	2" X
SUE MUE	11 27 2	me me		t at all	TEN STER	OLIE SINLIE

### Supplementary information:

<sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039.

The codes above have the following meaning:

- A 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





تاج ا	Attachment 1: IEC 60598-1						
Clau	use Requirement + Test	Result - Remark	Verdict				

ANNEX 2	TABLE: Thermal tests of Section 12			
	Type reference:	LUMM0019		
White all	Lamp used:	Resistive load	_	
, est - 1	Lamp control gear used:	AS013W-0502000ZC	_	
ne me	Mounting position of luminaire:	Acc. to user manual	_	
TEX JEX	Supply wattage (W):	3.71	_	
10	Supply current (A):	0.04	_	
WALTER V	Temperatures in test 1 - 4 below are corrected for ta (°C):	40 Martin Martin Martin	_	
TEX.	- abnormal operating mode:		_	
12.4	- test 1: rated voltage:	The war were and	_	
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	1.06*240=254.4	_	
JEK NALTEK	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage:	THE STIFF WITH MITTER	_	
LILER	Through wiring or looping-in wiring loaded by a current of A during the test:	it Tet will	_	
12.5	- test 4: 1,1 times rated voltage or 1,05 times rated wattage or 1,1 times constant voltage/current:	1	_	

### **Temperature measurements (°C)**

Dort	Ambient	Cl. 12.4 – normal				Cl. 12.5 – abnormal		
Part	Ambient	test 1	test 2	test 3	limit	test 4	limit	
Power supply (contact surface)	40	JF .	51.3	ALTER S	70	Natur.	"n <sub>r_</sub> "n	
Power supply (accessible)	40	Ver 100	44.9	10 2	75	, it	18t S	
Output wire of power supply	40	× 56	44.7	NITE NI	80	11/1 11	-7/1	
Control link cable	40	-7/2	46.0	<sub>_</sub>	80	(E	EX TEX	
Temperature sensor cable	40	- 17 EF	42.9	1111	80	Vr 1/2	47	
DC inlet (J2)	40	40	51.6	L, A	Cl.18	EK (TE)	N.C.	
DC inlet (J3, J4)	40	. LITE . 15	54.3	1/1/12 /	Cl.18	7/1	20,	
DC inlet (J5, J6)	40	2n 2	52.0	, <del>c</del> t	Cl.18	L CLEEK	MITE M	
T1 magnet wire	40		53.0	21/2 21/2	140	40,		
C21	40	<sub>A</sub> +	52.2	18t J	105	WILL OU	11 10 10 10 10 10 10 10 10 10 10 10 10 1	
Battery support	40	11111	52.6	-77/12	Cl.18	·	+ of	
Relay	40		70.3	et Tiet	85	The -Nati	Mari	
SW1 surface	40	201 2	45.2	1/1	Ref.		70	



Page 20 of 20

Report No. WTU22N10211826L

Clause	Requirement + Tes	t the se	LIFER	whise a	Result - Remark			Verdict
LIFE WALT	in muri muri m	er m	-tn	<del></del>	CENT SER	- Lifeth in	LIER JALI	E. WILL
Connector for display screen		40	NITE V	54.4	17/2	Cl.18	, <del>`</del>	
Control PCB		40	2,	60.3	t set	Cl.18	171-27	" " "
Screen PCB		40	LITE ONLY	56.6	2/1, 1	Cl.18	-74-	.e/
Metal surface		40	ال الم	47.3	NITE IN	Ref.	WILL A	1 41
Mounting surface		40	7/1-12	46.7	2), -2,	90	, <del>+</del> -	J 1

===== End of Attachment 1 ======





Page 1 of 9

### **Attachment 2: Photo Documentation**

Model: LUMM0019

Description: Overview.

Photo 1



Photo 2

Description: Overview\_ Wiring diagram.





Page 2 of 9

Report No.: WTU22N10211826L

### **Attachment 2: Photo Documentation**

Photo 3

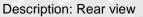




Photo 4







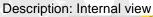
Page 3 of 9

### **Attachment 2: Photo Documentation**

Photo 5



Photo 6







Page 4 of 9 Report No.: WTU22N10211826L

### **Attachment 2: Photo Documentation**

Photo 7

Description: Internal view

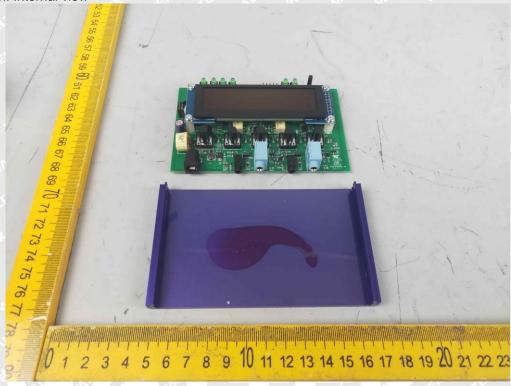


Photo 8 Description: Internal view \_ Transparent insulation sheet





Page 5 of 9 Report No.: WTU22N10211826L

### **Attachment 2: Photo Documentation**

Photo 9

Description: Internal view



Photo 10





Page 6 of 9 Report No.: WTU22N10211826L

# **Attachment 2: Photo Documentation**

Photo 11



Photo 12





Page 7 of 9

#### **Attachment 2: Photo Documentation**

Photo 13

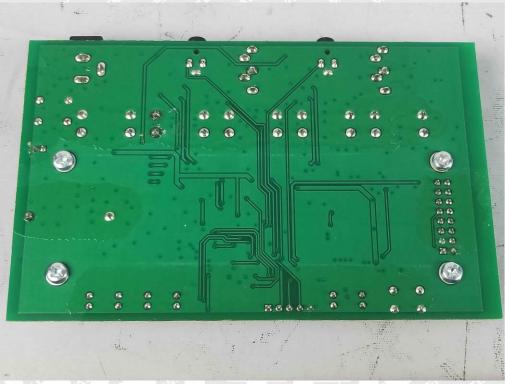


Photo 14





Page 8 of 9 Report No.: WTU22N10211826L

#### **Attachment 2: Photo Documentation**

Photo 15

Description: Power supply \_ EU plug



Photo 16

Description: Label of power supply





Page 9 of 9

### **Attachment 2: Photo Documentation**

Photo 17

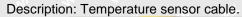




Photo 18





===== End of Attachment 2 =====