



Test Report issued under the responsibility of:



TEST REPORT IEC / EN 60598-2-3 Luminaires

Part 2: Particular requirements Section 3: Luminaires for road and street lighting

Report Number.....: 701588-01/01-M1

Date of issue 31. 07. 2017, Amendment No. 1: 2018 December 04

Name of Testing Laboratory Elektrotechnický zkušební ústav, s. p.

Applicant's name: LUG Light Factory Sp.z o.o.

Address: Ul. Grozowska 11, 65-127 Zilena Góra, Poland

Test specification:

Standard: IEC 60598-1:2014.

IEC 60598-2-3:2002 + A1:2011

EN 60598-1:2015,

EN 60598-2-3:2003+A1:2011

Test procedure: CB, ENEC Scheme

Non-standard test method: N/A

Test Report Form No.: IEC60598_2_3J

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

Master TRF: 2014-09

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Test item description:	Lumina	naires for road and street lighting			
Trade Mark:		UG [*]			
Manufacturer:	LUG L	Light Factory Sp.z o.o.			
Model/Type reference:	URBIN	NI LED ED 4700lm/740			
Ratings:	220-24	240 V; 50-60 Hz; IP66; protection class I			
	42 W L	LED; ta 40 °C - URBINI LED ED 4700lm/740			
Responsible Testing Laboratory (as a	nnlical	able), testing procedure and testing location(s):			
CB Testing Laboratory:		Elektrotechnický zkučehní ústav s n			
Testing location/ address		Elektrotechnický zkušební ústav, s. p. Pod lisem 129/2, 171 02 Praha 8 – Troja, Czech republic			
☐ Associated CB Testing Laborate	ory:	- LOV 71- %			
Testing location/ address	:	econicky zkušebnie			
Tested by (name, function, signature)):	Lukáš Fér Lukáš Fér			
Approved by (name, function, signatu	ure):	Zdeněk Dvořák			
☐ Testing procedure: TMP/CTF Sta	age 1:	-4-			
Testing location/ address	:				
Tested by (name, function, signature):				
Approved by (name, function, signate	ure):				
Tarting and address WINTIGHT OF	O.	•			
Testing procedure: WMT/CTF St					
Testing location/ address					
Tested by (name + signature)	:				
Witnessed by (name, function, signat	ture):				
Approved by (name, function, signate	ure):				
Testing procedure: SMT/CTF Stage 3 or 4:					
Testing location/ address	:				
Tested by (name, function, signature):				
Witnessed by (name, function, signate	ture):				
Approved by (name, function, signate	ure):				
Supervised by (name, function, signa	ature) :				

Report No. 701588-01/01-M1

List of Attachments (including a total number of	pages in each attachment):					
Attachment No. 1: LED modules for general lighting – Safety specifications (9 pages)						
This Amendment Report, Ref. No. 701588-01/01-M1 to the original Report. No. 701588-01/01 contains 11 Report Pages and new photographs.						
Summary of testing:						
Tests performed (name of test and test	Testing location:					
clause):	Elektrotechnický zkušební ústav, s.p.					
cl.: 10; 12.3; 12.4	Pod lisem 129/2, 171 02 Praha 8 – Troja,					
	Czech republic					
Summary of compliance with National Difference	es:					
List of countries addressed						
☐ The product fulfils the requirements of	(insert standard number and edition and elete the whole sentence, if not applicable)					

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.



Test item particulars:
Classification of installation and use: Luminaires for road and street lighting
Supply Connection: Wires
<u></u> :
Possible test case verdicts:
- test case does not apply to the test object: N/A (Not applicable)
- test object does meet the requirement: P (Pass)
- test object does not meet the requirement: F (Fail)
Testing:
Date of receipt of test item: 10. 09. 2018; 25. 09. 2018
Date (s) of performance of tests: 06. 11. 2018 - 04. 12. 2018
General remarks:
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.
Throughout this report a ⊠ comma / ☐ point is used as the decimal separator.
Manufacturer's Declaration per sub-clause 4.2.5 of IECEE 02:
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
When differences exist; they shall be identified in the General product information section.
Name and address of factory (ies):
General product information:
The tested sample was selected in accordance with Annex S of ČSN EN 60598-1. Tested type: see page 4. 220-240 V; 50-60 Hz; IP 66; protection class II
Amendmend No. 1 Report: The original Test Report Ref. No. 701588-01/01, dated 2017 July 31 was modified on 2018 December 04 to include the following changes and/or additions:
New model added: New model contain new electronic control gear and LED modules. Construction of the luminaire remains same as before.

	IEC 60598-2-3					
Clause	Requirement + Test	Result - Remark	Verdict			
3.12 (12)	ENDURANCE TEST AND THERMAL TEST		Р			
3.12.2 (-)	If IP > IP 20 relevant test of (12.4), (12.5) and (12.6) after (9.2) before (9.3) specified in 3.13					
3.12 (12.3)	Endurance test:					
	- mounting-position	On pipe				
	- test temperature (°C)	50 °C				
	- total duration (h)	240	1			
	- supply voltage: Un factor; calculated voltage (V):	253	_			
	- lamp used	LED module				
3.12 (12.3.2)	After endurance test:		Р			
	- no part unserviceable		Р			
	- luminaire not unsafe		Р			
	- no damage to track system		N/A			
	- marking legible		Р			
	- no cracks, deformation etc.		Р			
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	Р			
3.12 (12.5)	Thermal test (abnormal operation)	(see Annex 2)	N/A			
3.12 (12.6)	Thermal test (failed lamp control gear condition):		N/A			
3.12 (12.6.1)	Through wiring or looping-in wiring loaded by a current of (A)		-			
	- case of abnormal conditions		_			
	- electronic lamp control gear		N/A			
	- measured winding temperature (°C): at 1,1 Un:					
	- measured mounting surface temperature (°C) at 1,1 Un		N/A			
	- calculated mounting surface temperature (°C):		N/A			
	- track-mounted luminaires		N/A			
3.12 (12.6.2)	Temperature sensing control		N/A			
	- case of abnormal conditions		_			
	- thermal link		N/A			
	- manual reset cut-out		N/A			
	- auto reset cut-out		N/A			
	- measured mounting surface temperature (°C):		N/A			

	IEC 60598-2-3				
Clause	Requirement + Test	Result - Remark	Verdict		
			I		
	- track-mounted luminaires		N/A		
3.12 (12.7)	Thermal test (failed lamp control gear in plastic lumina	ires):	N/A		
3.12 (12.7.1)	Luminaire without temperature sensing control		N/A		
3.12 (12.7.1.1)	Luminaire with fluorescent lamp ≤ 70W		N/A		
	Test method 12.7.1.1 or Annex W				
	Test according to 12.7.1.1:		N/A		
	- case of abnormal conditions				
	- Ballast failure at supply voltage (V)				
	- Components retained in place after the test		N/A		
	- Test with standard test finger after the test		N/A		
	Test according to Annex W:		N/A		
	- case of abnormal conditions				
	- measured winding temperature (°C): at 1,1 Un:				
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un				
	- calculated temperature of fixing point/exposed part (°C)				
	Ball-pressure test		N/A		
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp > 70	W, transformer > 10 VA	N/A		
	- case of abnormal conditions				
	- measured winding temperature (°C): at 1,1 Un:				
	- measured temperature of fixing point/exposed part (°C): at 1,1 Un				
	- calculated temperature of fixing point/exposed part (°C)		-		
	Ball-pressure test		N/A		
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers ≤ 10 VA		N/A		
	- case of abnormal conditions		_		
	- Components retained in place after the test		N/A		
	- Test with standard test finger after the test		N/A		
3.12 (12.7.2)	Luminaire with temperature sensing control		N/A		
	- thermal link:	Yes No	_		

	IEC 60598-2-3				
Clause	Requirement + Test	Result - Remark	Verdict		
	- manual reset cut-out	Yes No			
	- auto reset cut-out	Yes No			
	- case of abnormal conditions		_		
	- highest measured temperature of fixing point/ exposed part (°C):				
	Ball-pressure test:		N/A		
3.12.1 (-)	Temperature reduction if for outdoor use only		N/A		
3.12.2 (-)	(See above)				
3.12.3 (-)	Glass covers used within the thermal limits declared by the glass manufacturer		N/A		
3.14 (10)	INSULATION RESISTANCE AND ELECTRIC STREN	GTH			
3.14 (10.2.1)	Insulation resistance test		Р		
	Cable or cord covered by metal foil or replaced by a metal rod of mm Ø				
	Insulation resistance (MΩ)		_		
	SELV				
	- between current-carrying parts of different polarity:		N/A		
	- between current-carrying parts and mounting surface	>110 MΩ	Р		
	- between current-carrying parts and metal parts of the luminaire	>110 MΩ	Р		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts		N/A		
	- Insulation bushings as described in Section 5:		N/A		
	Other than SELV				
	- between live parts of different polarity:		N/A		
	- between live parts and mounting surface	>550 MΩ	Р		
	- between live parts and metal parts	>550 MΩ	Р		
	- between live parts of different polarity through action of a switch		N/A		
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:	>550 MΩ	Р		
	- Insulation bushings as described in Section 5:		N/A		

	IEC 60598-2-3		
Clause	Requirement + Test	Result - Remark	Verdict
3.14 (10.2.2)	Electric strength test		Р
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)		N/A
	SELV		
	- between current-carrying parts of different polarity:		N/A
	- between current-carrying parts and mounting surface	500 V	Р
	- between current-carrying parts and metal parts of the luminaire	500 V	Р
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts:		N/A
	- Insulation bushings as described in Section 5:		N/A
	Other than SELV		
	- between live parts of different polarity		N/A
	- between live parts and mounting surface	1460 V	Р
	- between live parts and metal parts	1460 V	Р
	- between live parts of different polarity through action of a switch		N/A
	- between the outer surface of a flexible cord or cable where it is clamped in a cord anchorage and accessible metal parts	1460 V	Р
	- Insulation bushings as described in Section 5:		N/A
3.14 (10.3)	Touch current (mA)	0,0025	Р
	Protective conductor current (mA)	0,036	Р

ANNEX 1 T	ABLE: C	Critical componer	nts information			
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Description:	LUG U	RBINI LED ED 47	700lm/740 130232.5	L221.101.001		
LED module	В	LUG	ML180400 W757.01A	Umax 44 V; tc 85 °C; Imax 1150 mA	62031	Tested in equipment
Control gear	В	Philips	Xi FP 40W 0.3- 1.0A SLNDAE 230V C123 sXt	220-240 V; 50/60 Hz, tc 85 °C		ENEC 05; DEKRA Certificate no 31-102115
Wires LED	В		LGY	300/500 V; 0,5 mm ²	IEC227	-
Ext. wires	В	MROWIEC	H03VV-F	3 x 1,0 mm ²	IEC227	BBJ-SEP; PL 2 0306

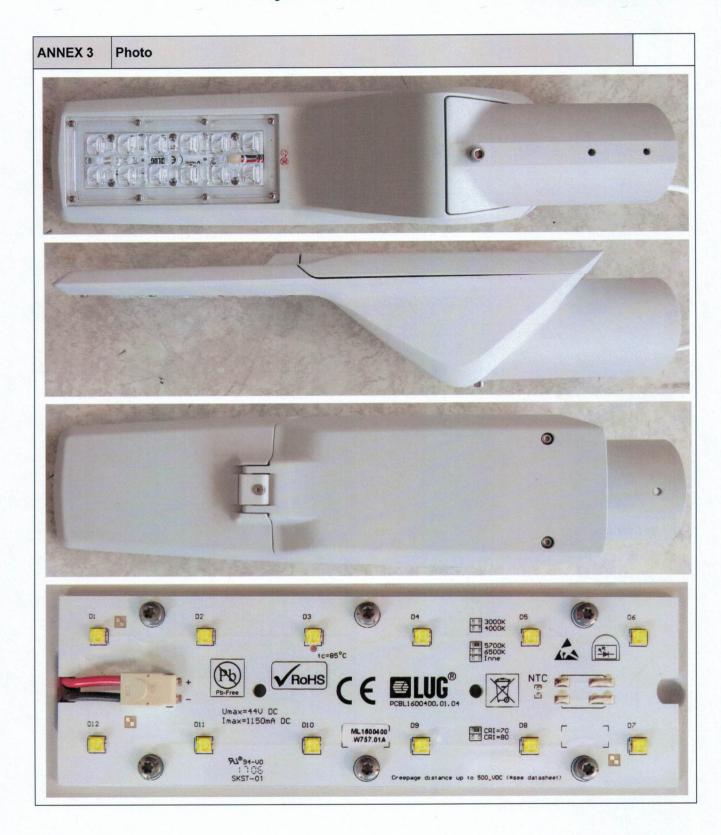
Supplementary information:

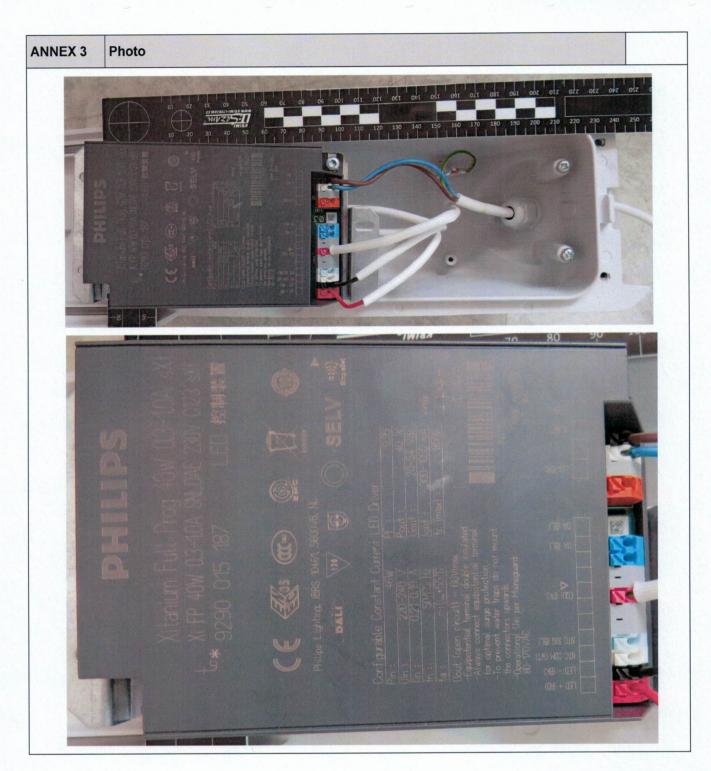
The codes above have the following meaning:

- 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

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

ANNEX 2	TABLE	TABLE: Temperature measurements, thermal tests of Section 12						
	Type r	Type reference:					LUG URBINI LED ED 4700lm/740 130232.5L221.101.001	
	Lamp	used			:	LED m	odule LUG	-
	Lamp	amp control gear used				Р	hilips	_
	Mount					0	n pipe	
	Supply					4	1,4 W	
	Supply							_
	Calcul	ated power	er factor					
	Table: measured temperatures corrected for ta = 35 °C:							
	- abnormal operating mode							
	- test	- test 1: rated voltage			240 V	_		
		est 2: 1,06 times rated voltage or 1,05 times rated attage(230 x 1,06)						
				ocket-outlet, 1				
				age or 1,05 ti				
				wiring loade				
			Tem	perature me	asurements	s, (°C)		
			Clause 12.4 – normal				Clause 12.5 -	abnorma
Part	A	mbient	test 1	test 2	test 3	limit	test 4	limit
LED module	e tc	40,4	64,2			85	-	
Control gea	r tc	40,4	78,3			85		
LED wires		40,4		63,7		90		
		40,4		57,1		90		





ATTACHMENT No. 1 TO TEST REPORT 701588-01/01-M1 IEC / EN 62031:2008 LED modules for general lighting – Safety specifications

	GENERAL REQUIREMENTS		P
4.4	Integral modules tested assembled in the luminaire		Р
4.5	Independent modules complies with requirements in IEC 60598-1		N/A
5	GENERAL TEST REQUIREMENTS		N/A
5.5	SELV-operated LED modules comply with Annex I of IEC 61347-2-13	(see Annex 1)	N/A
	General conditions for tests in Annex A	(see Annex A)	N/A
6	CLASSIFICATION		Р
	Built-in module	Yes ⊠ No □	
	Independent module	Yes □ No ⊠	
	Integral module	Yes □ No ⊠	
	For Integral module; Note to 1.2.1 in IEC 60598-1 applies.		
7	MARKING		Р
7.1	Mandatory markings for built-in or independent mo	odules	
	a) mark of origin	LUG	Р
	b) model number, type reference	ML1600400	Р
	c1) constant voltage module; rated supply voltage and supply frequency	44 V	Р
	c2) constant current module; rated supply current and supply frequency	1150 mA	Р
	d) nominal power	50,6 W	Р
	e) indication of connections, wiring diagram		Р
	f) value of $t_{\rm c}$ and place on the module	85 °C	P
	g) Ethr if required		N/A
	h) symbol for built-in modules		P
	i) heat transfer temperature $t_{ m d}$		Р
	j) power for heat-conduction $P_{\rm d}$		Р
	k) working voltage for insulation	500 V	Р
7.2	Location of marking		
	- marking of a), b), c) and f) on the modules		Р
	- marking of d), e), g), h), i) and j) on the modules or data sheet		N/A
	- marking of k) in manufactures literature		Р

	IEC / EN 62031					
Clause	Requirement + Test	Result - Remark	Verdic			
	- integral modules a) to g) in literature		Р			
7.3	Durable and legibility of marking					
	- marking of a), b), c) and f) legible after test with water		Р			
	- marking of d) to j) inspection of compliance		Р			
8	TERMINALS		Р			
	Screw terminals according section 14 of IEC 60598-1:					
	Separately approved; component list	(see Annex 2)	N/A			
	Part of the luminaire	(see Annex 3)	N/A			
	Screwless terminals according section 15 of IEC 60598-1:					
	Separately approved; component list	(see Annex 2)	N/A			
	Part of the luminaire	(see Annex 4)	Р			
	Connectors according IEC 60838-2-2:					
	Separately approved; component list	(see Annex 2)	N/A			
9 (9)	PROVISION FOR PROTECTIVE EARTHING		N/A			
10 (10)	PROTECTION AGAINST ACCIDENTAL CONTACT WITH LIVE PARTS					
11 (11)	MOISTURE RESISTANCE AND INSULATION					
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (M Ω):					
	For basic insulation $\geq 2 \ M\Omega$	>550 MΩ	Р			
	For double or reinforced insulation \geq 4 M Ω		N/A			
	Between primary and secondary circuits in controlgear providing SELV, values in Annex L in IEC 61347-1		N/A			
12 (12)	ELECTRIC STRENGTH		Р			
	Immediately after clause 11 electric strength test for 1 min		Р			
	Basic insulation for SELV, test voltage 500 V		N/A			
	Working voltage ≤ 50 V, test voltage 500 V		N/A			
	Working voltage > 50 V ≤ 1000 V, test voltage (V):					
	Basic insulation, 2U + 1000 V	1088 V	Р			
	Supplementary insulation, 2U + 1000 V		N/A			
	Double or reinforced insulation, 4U + 2000 V		N/A			

IEC / EN 62031				
Clause	Requirement + Test	Result - Remark	Verdict	
	Solid or thin sheet insulation for double or reinforced insulation fulfil the requirements in Annex N in IEC		N/A	

13 (14)	FAULT CONDITIONS		P
- (14)	When operated under fault conditions the controlgear:		
	- does not emit flames or molten material		Р
A SECTION	- does not produce flammable gases		Р
	- protection against accidental contact not impaired		Р
	Thermally protected controlgear does not exceed the marked temperature value		N/A
	Fault conditions: capacitors, resistors or inductors without proof of compliance with relevant specifications have been short-circuited or disconnected	(see appended table)	P
- (14.1)	Short-circuit of creepage distances and clearances if less than specified in clause 16 in Part 1 (except between live parts and accessible metal parts)	(see appended table)	N/A
	Creepage distances on printed boards less than specified in clause 16 in Part 1 provided with coating according to IEC 60664-3		N/A
- (14.2)	Short-circuit or interruption of semiconductor devices	(see appended table)	Р
- (14.3)	Short-circuit across insulation consisting of lacquer, enamel or textile	(see appended table)	N/A
- (14.4)	Short-circuit across electrolytic capacitors	(see appended table)	Р
- (14.5)	After the tests has been carried out on three samples:		
	The insulation resistance \geq 1 M Ω	>550 MΩ	Р
	No flammable gases		Р
	No accessible parts have become live		Р
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		Р
- (14.6)	Relevant fault condition tests with high-power supply		N/A
13.2	Overpower condition		
	Module withstands overpower condition >15 min.		Р
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		Р
	No fire, smoke or flammable gas is produced		Р
	Molten material does not ignite tissue paper, spread below the module		Р

	IEC / EN 62031		
Clause	Requirement + Test	Result - Remark	Verdic
15	CONSTRUCTION		Р
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		Р
16 (16)	CREEPAGE DISTANCES AND CLEARANCES		Р
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	(see appended table)	Р
	Insulating lining of metallic enclosures		N/A
	Basic insulation on printed boards tested according to clause 14		N/A
	Distances subjected to both sinusoidal voltage as non-sinusoidal pulses not less than value in Table 16		N/A
	Creepage distances not less than minimum clearance		N/A
16 (-)	Conductive accessible parts in compliance with applicable parts of IEC 60598-1		N/A
17 (17)	SCREWS, CURRENT-CARRYING PARTS AND COM	NECTIONS	N/A
18 (18)	RESISTANCE TO HEAT, FIRE AND TRACKING		N/A
- (18.1)	Ball-pressure test		N/A
- (18.3)	Glow-wire test (650°C)		N/A
- (18.4)	Needle-flame test (10 s)		N/A
- (18.5)	Proof tracking test		N/A
19 (19)	RESISTANCE TO CORROSION		N/A
20	INFORMATION FOR LUMINAIRE DESIGN		N/A
	Information in Annex D (informative)		
21	HEAT MANAGEMENT		N/A
The state of the state of			

	IEC	C / EN 62031	
Clause	Requirement + Test	Result - Remark	Verdict

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

A ANNEX A - TESTS	N/A
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13 (14)	TABLE: tests of fault conditions	P
Part	Simulated fault	Hazard
LED	Short-circuit over LED	NO

		- 11	EC / EN 62					
Clause	Requirement + Test			Result - Remark			Verdict	
16 (16)	TABLES: Creepage dis	TABLES: Creepage distances and						Р
Table 3	Minimum distances (n	nm) for a.c.	(50/60 Hz)	sinusoid	al voltage	es		
RMS work	king voltage (V) not exceedi	ng	50	150	250	500	750	1000
Creepage	distances					and the second		
Required b	basic insulation, PTI ≥ 600		0,6	0,8	1,5	3	4	5,5
Measured			-	-	-	-	-	-
Required I	basic insulation, PTI < 600		1,2	1,6	2,5	5	8	10
Measured			-	-	-	5,2	-	-
Required s	supplementary insulation P	TI ≥ 600	-	0,8	1,5	3	4	5,5
Measured				-	-	-	-	-
Required s	supplementary insulation P	TI < 600	- 17	1,6	2,5	5	8	10
Measured				-	-	-	-	
Required reinforced insulation			-	3,2	5	6	8	11
Measured			-	-	-	-	-	
Clearance	es							
Required basic insulation			0,2	0,8	1,5	3	4	5,5
Measured			-	-	-	6,1	-	-
Required	supplementary insulation		-	0,8	1,5	3	4	5,5
Measured				-	-	-	-	-
Required i	reinforced insulation			1,6	3	6	8	11
Measured				-	-	-	-	-
Table 4	Minimum distances	(mm) for no	on-sinuso	idal pulse	voltages			
Rated puls	se voltage (peak kV)	2,0	2,5	3,0	4,0	5,0	6,0	8,0
Required of	clearances	1,0	1,5	2	3	4	5,5	8
Measured		-	-	-	-	-	-	-
Rated pulse voltage (peak kV) 10		12	15	20	25	30	40	
Required of	clearances	11	14	18	25	33	40	60
Measured		-	-	-	-	-	-	
Rated puls	se voltage (peak kV)	50	60	80	100	-	-	-
Required of	clearances	75	90	130	170	-	-	-
Measured		-	-		- <u>-</u>			

	IEC /	EN 62031	
Clause	Requirement + Test	Result - Remark	Verdict
18 (18.1)	TABLE: Ball Pressure Test of Thermo	oplastics	N/A
18 (18.3)	TABLE: Glow-wire test		N/A
18 (18.4)	TABLE: Needle-flame test		N/A
18 (18.5)	TABLE: Proof tracking test		N/A

List of used test equipment:					
Device:	Type:	Inv. No.:			
Thermometer	GTH1150	00551122			
High voltage transformer KIKUSUI	TOS5301	00110285			
Multimeter Fluke	1587	551734			
Power supply KIKUSUI	PCR500M	00110185			
Caliper	MITUTOYO	551392			

ANNEX 1	SELV-operated LED modules	N/A	
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ANNEX 2	2 TABLE: Critical components information					
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Description	: LUG	ML1701403.W740.	01A			
Connector	А	ВЈВ	46.102	9 A; 320 V 0,34 – 0,75 mm ²	IEC 60598	VDE 40037753
LED	А	Cree	XP-G3	Max. 2000 mA		UL E349212
AI PCB	А	TAMINGKEE ELECTRONIC TECHNOLOGY (HK) CO.,LTD.	HDMA-210		-	UL E500775

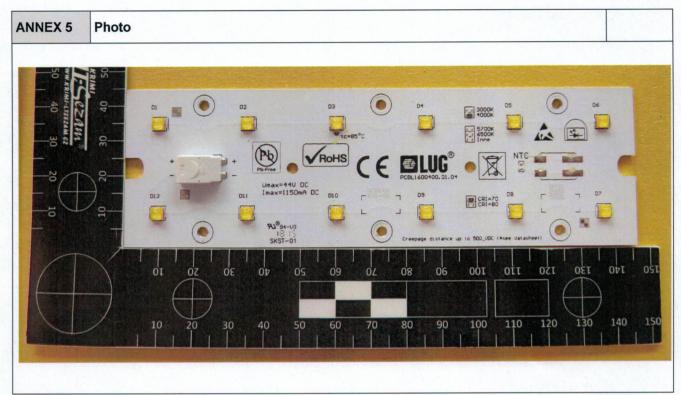
Supplementary information:

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

ANNEX 3	Screw terminals (part of the luminaire)	N/A
ANNEX 4	Screwless terminals (part of the luminaire)	N/A

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



Tested by: Lukáš Fér