



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
 Total number of pages 13 + 9 (Attachment No. 1)

Name of Testing Laboratory preparing the Report : Elektrotechnický zkušební ústav, s. p.
 Pod lisem 129/2, 171 02 Praha 8 – Troja, Czech republic

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

Copyright © 2014 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the IECEE is acknowledged as copyright owner and source of the material. IECEE takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

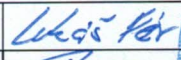
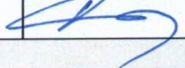
If this Test Report Form is used by non-IECEE members, the IECEE/IEC logo and the reference to the CB Scheme procedure shall be removed.

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	Luminaires for road and street lighting	
Trade Mark		
Manufacturer.....	LUG Light Factory Sp.z o.o.	
Model/Type reference	URBINI LED ED 4700lm/740	
Ratings	220-240 V; 50-60 Hz; IP66; protection class I 42 W LED; ta 40 °C - URBINI LED ED 4700lm/740	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
☒	CB Testing Laboratory:	
Testing location/ address		Elektrotechnický zkušební ústav, s. p. Pod lisem 129/2, 171 02 Praha 8 – Troja, Czech republic
☐	Associated CB Testing Laboratory:	
Testing location/ address		
Tested by (name, function, signature)		Lukáš Fér 
Approved by (name, function, signature)		Zdeněk Dvořák 
☐	Testing procedure: TMP/CTF Stage 1:	
Testing location/ address		
Tested by (name, function, signature)		
Approved by (name, function, signature)		
☐	Testing procedure: WMT/CTF Stage 2:	
Testing location/ address		
Tested by (name + signature)		
Witnessed by (name, function, signature) ..		
Approved by (name, function, signature)		
☐	Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address		
Tested by (name, function, signature)		
Witnessed by (name, function, signature) ..		
Approved by (name, function, signature)		
Supervised by (name, function, signature) :		



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 clause):

cl.: 10; 12.3; 12.4

Testing location:

Elektrotechnický zkušební ústav, s.p.
Pod lisem 129/2, 171 02 Praha 8 – Troja,
Czech republic

Summary of compliance with National Differences: ---

List of countries addressed

☐ The product fulfils the requirements of _____ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete 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	
..... :	
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 IEC 60598-1:	
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	☐ Yes ☒ Not applicable
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	
Amendment 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		Verdict
3.12 (12)	ENDURANCE TEST AND THERMAL TEST		P
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:		P
	- mounting-position	On pipe	—
	- test temperature (°C)	50 °C	—
	- total duration (h)	240	—
	- supply voltage: Un factor; calculated voltage (V)	253	—
	- lamp used	LED module	—
3.12 (12.3.2)	After endurance test:		P
	- no part unserviceable		P
	- luminaire not unsafe		P
	- no damage to track system		N/A
	- marking legible		P
	- no cracks, deformation etc.		P
3.12 (12.4)	Thermal test (normal operation)	(see Annex 2)	P
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
	- track-mounted luminaires		N/A
3.12 (12.7)	Thermal test (failed lamp control gear in plastic luminaires):		N/A
3.12 (12.7.1)	Luminaire without temperature sensing control		N/A
3.12 (12.7.1.1)	Luminaire with fluorescent lamp $\leq 70W$		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 ($^{\circ}C$): at 1,1 Un		—
	- measured temperature of fixing point/exposed part ($^{\circ}C$): at 1,1 Un.....		—
	- calculated temperature of fixing point/exposed part ($^{\circ}C$)		—
	Ball-pressure test.....		N/A
3.12 (12.7.1.2)	Luminaire with discharge lamp, fluorescent lamp $> 70W$, transformer $> 10 VA$		N/A
	- case of abnormal conditions.....		—
	- measured winding temperature ($^{\circ}C$): at 1,1 Un		—
	- measured temperature of fixing point/exposed part ($^{\circ}C$): at 1,1 Un.....		—
	- calculated temperature of fixing point/exposed part ($^{\circ}C$)		—
	Ball-pressure test.....		N/A
3.12 (12.7.1.3)	Luminaire with short circuit proof transformers $\leq 10 VA$		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 STRENGTH		
3.14 (10.2.1)	Insulation resistance test		P
	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	P
	- between current-carrying parts and metal parts of the luminaire	>110 MΩ	P
	- 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	P
	- between live parts and metal parts	>550 MΩ	P
	- 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	P
	- Insulation bushings as described in Section 5		N/A

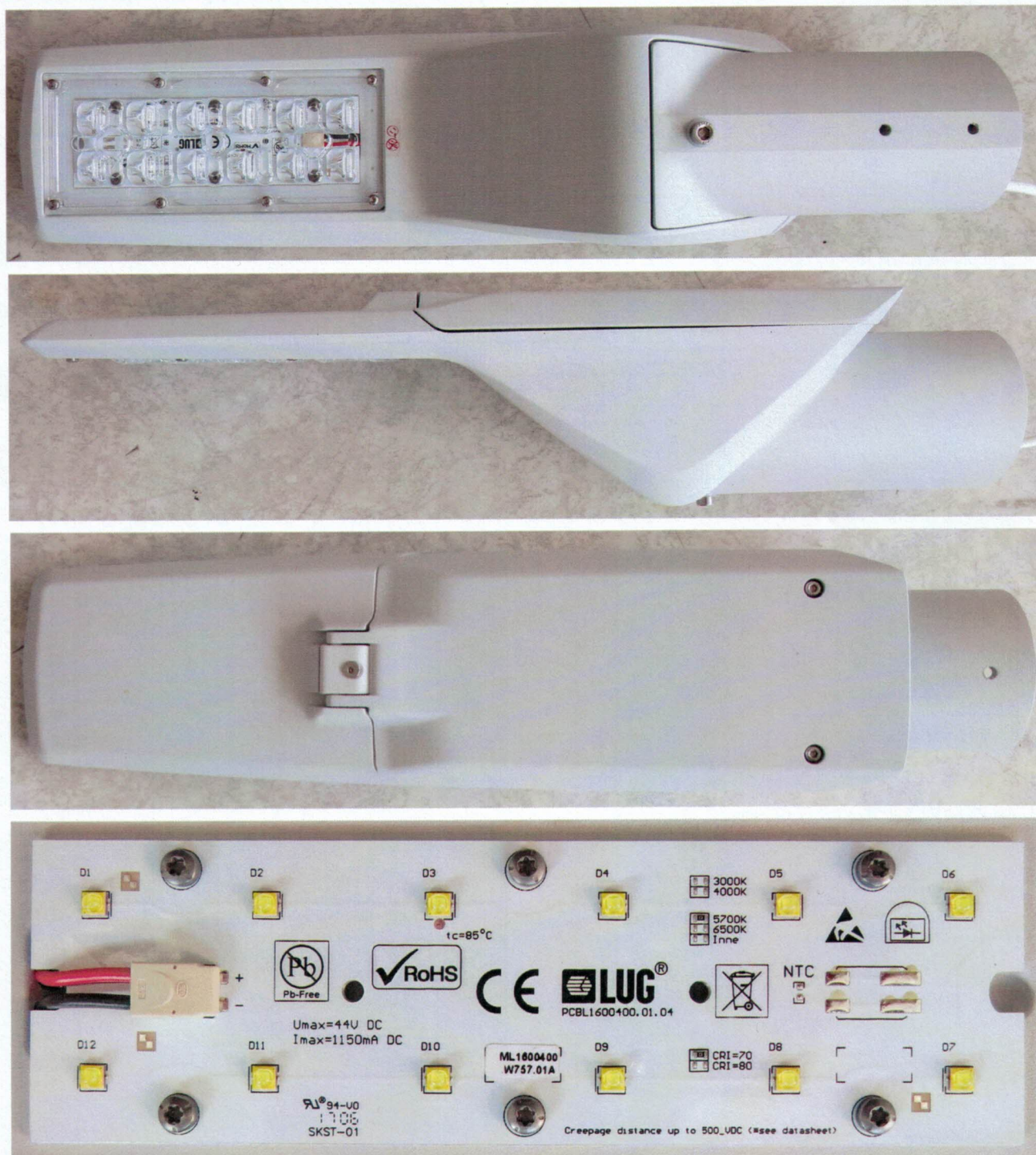
IEC 60598-2-3			
Clause	Requirement + Test	Result - Remark	Verdict
3.14 (10.2.2)	Electric strength test		P
	Dummy lamp		N/A
	Luminaires with ignitors after 24 h test		N/A
	Luminaires with manual ignitors		N/A
	Test voltage (V)		N/A
	SELV		
	- between current-carrying parts of different polarity :		N/A
	- between current-carrying parts and mounting surface	500 V	P
	- between current-carrying parts and metal parts of the luminaire	500 V	P
	- 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	P
	- between live parts and metal parts	1460 V	P
	- 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	P
	- Insulation bushings as described in Section 5		N/A
3.14 (10.3)	Touch current (mA)	0,0025	P
	Protective conductor current (mA)	0,036	P

ANNEX 1		TABLE: Critical components information					
Object / part No.	Code	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Description:		LUG URBINI LED ED 4700lm/740 130232.5L221.101.001					
LED module	B	LUG	ML180400 W757.01A	U _{max} 44 V; t _c 85 °C; I _{max} 1150 mA	62031	Tested in equipment	
Control gear	B	Philips	Xi FP 40W 0.3-1.0A SLNDAE 230V C123 sXt	220-240 V; 50/60 Hz, t _c 85 °C		ENEC 05; DEKRA Certificate no. 31-102115	
Wires LED	B		LGY	300/500 V; 0,5 mm ²	IEC227	---	
Ext. wires	B	MROWIEC	H03VV-F	3 x 1,0 mm ²	IEC227	BBJ-SEP; PL 2 0306	
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							

ANNEX 2	TABLE: Temperature measurements, thermal tests of Section 12						
	Type reference.....:	LUG URBINI LED ED 4700lm/740 130232.5L221.101.001	—				
	Lamp used	LED module LUG	—				
	Lamp control gear used	Philips	—				
	Mounting position of luminaire.....:	On pipe	—				
	Supply wattage (W)	41,4 W	—				
	Supply current (A).....:	---	—				
	Calculated power factor	---	—				
	Table: measured temperatures corrected for ta = 35 °C:						
	- abnormal operating mode	Not used; see supplementary information	—				
	- test 1: rated voltage	240 V	—				
	- test 2: 1,06 times rated voltage or 1,05 times rated wattage(230 x 1,06).....:	243,8 V	—				
	- test 3: Load on wiring to socket-outlet, 1,06 times voltage or 1,05 times wattage.....:	---	—				
	- test 4: 1,1 times rated voltage or 1,05 times rated wattage	---	—				
	Through wiring or looping-in wiring loaded by a current of A during the test	---	—				
Temperature measurements, (°C)							
Part	Ambient	Clause 12.4 – normal				Clause 12.5 – abnormal	
		test 1	test 2	test 3	limit	test 4	limit
LED module tc	40,4	64,2	---	---	85	---	---
Control gear tc	40,4	78,3	---	---	85	---	---
LED wires	40,4	---	63,7	---	90	---	---
Internal wires	40,4	---	57,1	---	90	---	---
Supplementary information: Temperature marked control gear 120 °C.							

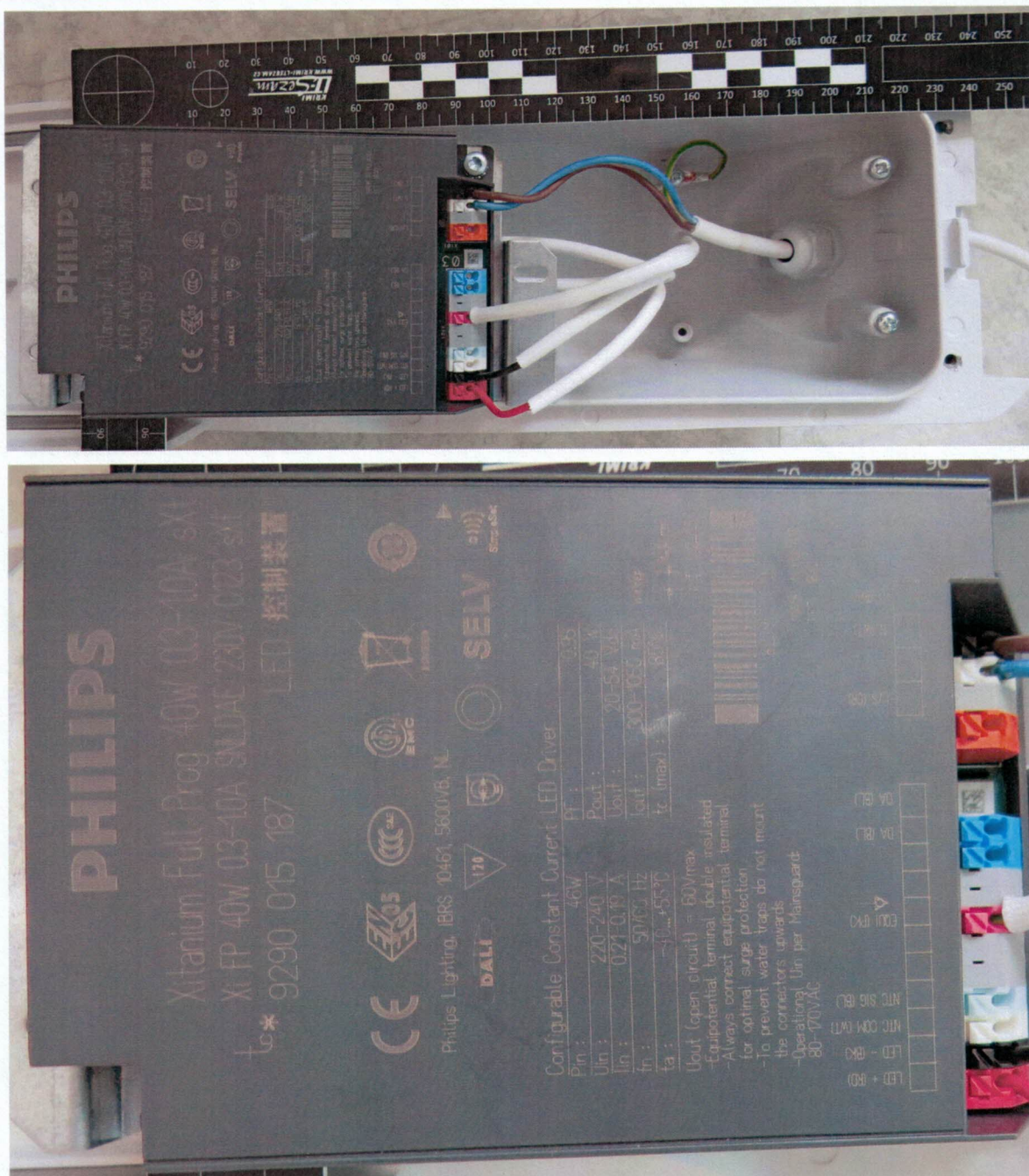
ANNEX 3

Photo



ANNEX 3

Photo



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	P
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	P
	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	P
7.1	Mandatory markings for built-in or independent modules	
	a) mark of origin	LUG P
	b) model number, type reference	ML1600400 P
	c1) constant voltage module; rated supply voltage and supply frequency	44 V P
	c2) constant current module; rated supply current and supply frequency	1150 mA P
	d) nominal power	50,6 W P
	e) indication of connections, wiring diagram	P
	f) value of t_c and place on the module	85 °C P
	g) E_{thr} if required	N/A
	h) symbol for built-in modules	P
	i) heat transfer temperature t_d	P
	j) power for heat-conduction P_d	P
	k) working voltage for insulation	500 V P
7.2	Location of marking	
	- marking of a), b), c) and f) on the modules	P
	- marking of d), e), g), h), i) and j) on the modules or data sheet	N/A
	- marking of k) in manufactures literature	P

IEC / EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
	- integral modules a) to g) in literature		P
7.3	Durable and legibility of marking		
	- marking of a), b), c) and f) legible after test with water		P
	- marking of d) to j) inspection of compliance		P
8	TERMINALS		P
	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)	P
	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		N/A
11 (11)	MOISTURE RESISTANCE AND INSULATION		P
	After storage 48 h at 91-95% relative humidity and 20-30 °C measuring of insulation resistance with d.c. 500 V (MΩ):		P
	For basic insulation $\geq 2 \text{ M}\Omega$	>550 MΩ	P
	For double or reinforced insulation $\geq 4 \text{ M}\Omega$		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		P
	Immediately after clause 11 electric strength test for 1 min		P
	Basic insulation for SELV, test voltage 500 V		N/A
	Working voltage $\leq 50 \text{ V}$, test voltage 500 V		N/A
	Working voltage $> 50 \text{ V} \leq 1000 \text{ V}$, test voltage (V):		
	Basic insulation, $2U + 1000 \text{ V}$	1088 V	P
	Supplementary insulation, $2U + 1000 \text{ V}$		N/A
	Double or reinforced insulation, $4U + 2000 \text{ V}$		N/A
	No flashover or breakdown		P

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 61347-1		N/A
13 (14)	FAULT CONDITIONS		P
- (14)	When operated under fault conditions the controlgear:		
	- does not emit flames or molten material		P
	- does not produce flammable gases		P
	- protection against accidental contact not impaired		P
	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)	P
- (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)	P
- (14.5)	After the tests has been carried out on three samples:		
	The insulation resistance $\geq 1 \text{ M}\Omega$	>550 M Ω	P
	No flammable gases		P
	No accessible parts have become live		P
	During the tests, a five-layer tissue paper, where the test specimen is wrapped, does not ignite		P
- (14.6)	Relevant fault condition tests with high-power supply		N/A
13.2	Overpower condition		
	Module withstands overpower condition >15 min.		P
	Module with automatic protective device or power limiter, test performed 15 min. at limit.		P
	No fire, smoke or flammable gas is produced		P
	Molten material does not ignite tissue paper, spread below the module		P

IEC / EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
15	CONSTRUCTION		P
	Wood, cotton, silk, paper and similar fibrous material not used as insulation		P
16 (16)	CREEPAGE DISTANCES AND CLEARANCES		P
- (16)	Creepage and distances and clearances in compliance with IEC 61347-1	(see appended table)	P
	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 CONNECTIONS		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

IEC / 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
----------	------------------------	--	-----

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

IEC / EN 62031								
Clause	Requirement + Test				Result - Remark		Verdict	
16 (16)	TABLES: Creepage distances and clearances						P	
Table 3	Minimum distances (mm) for a.c. (50/60 Hz) sinusoidal voltages							
RMS working voltage (V) not exceeding		50	150	250	500	750	1000	
Creepage distances								
Required basic insulation, PTI ≥ 600		0,6	0,8	1,5	3	4	5,5	
Measured		-	-	-	-	-	-	
Required basic insulation, PTI < 600		1,2	1,6	2,5	5	8	10	
Measured		-	-	-	5,2	-	-	
Required supplementary insulation PTI ≥ 600		-	0,8	1,5	3	4	5,5	
Measured			-	-	-	-	-	
Required supplementary insulation PTI < 600		-	1,6	2,5	5	8	10	
Measured			-	-	-	-	-	
Required reinforced insulation		-	3,2	5	6	8	11	
Measured			-	-	-	-	-	
Clearances								
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 reinforced insulation		-	1,6	3	6	8	11	
Measured			-	-	-	-	-	
Table 4	Minimum distances (mm) for non-sinusoidal pulse voltages							
Rated pulse voltage (peak kV)		2,0	2,5	3,0	4,0	5,0	6,0	8,0
Required 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 clearances		11	14	18	25	33	40	60
Measured		-	-	-	-	-	-	-
Rated pulse voltage (peak kV)		50	60	80	100	-	-	-
Required clearances		75	90	130	170	-	-	-
Measured		-	-	-	-			

IEC / EN 62031			
Clause	Requirement + Test	Result - Remark	Verdict
18 (18.1)	TABLE: Ball Pressure Test of Thermoplastics		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

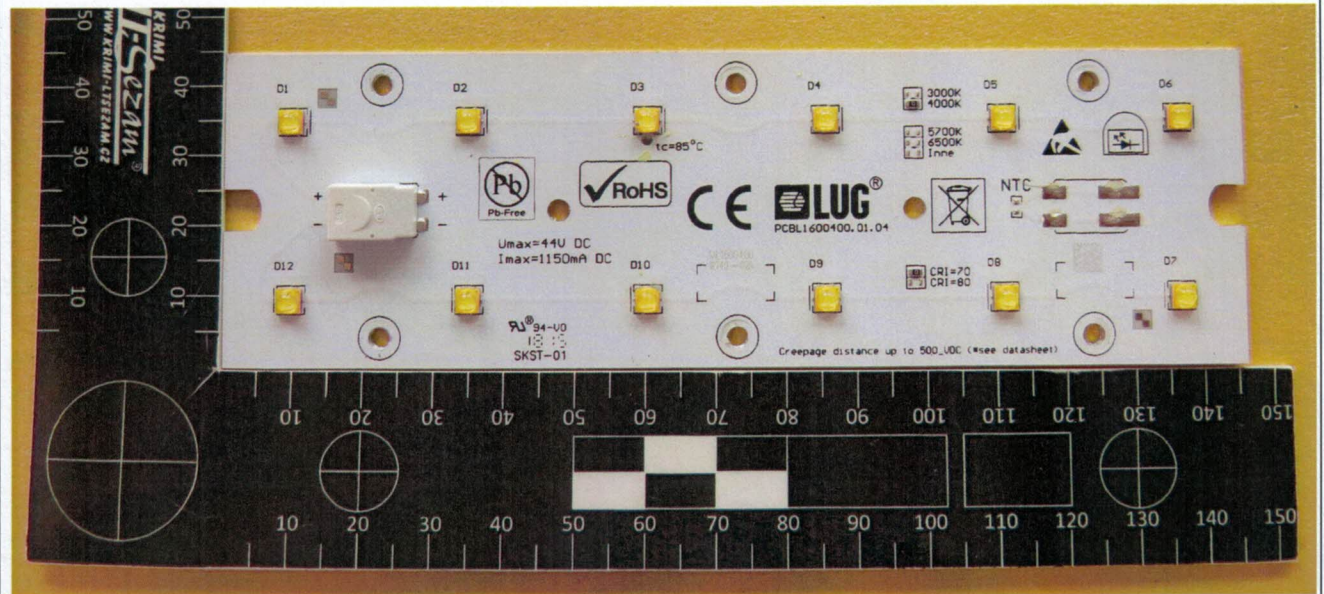
ANNEX 1	SELV-operated LED modules	N/A
----------------	----------------------------------	------------

ANNEX 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	A	BJB	46.102	9 A; 320 V 0,34 – 0,75 mm ²	IEC 60598	VDE 40037753
LED	A	Cree	XP-G3	Max. 2000 mA	---	UL E349212
AI PCB	A	TAMINGKEE ELECTRONIC TECHNOLOGY (HK) CO.,LTD.	HDMA-210	---	---	UL E500775
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						

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

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

ANNEX 5 Photo



Tested by: Lukáš Fér

Lucas Ror