



Center for Testing and European Certification

**LABORATORY FOR TESTING OF MACHINERY,
EQUIPMENT AND DEVICES
CENTER FOR TESTING AND EUROPEAN CERTIFICATION LTD**

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Accredited certificate
№ 101 ЛП / 24.11.2014
Valid until: 24.11.2018
of EA BAS, according
EN ISO/IEC 17025

TEST REPORT

№ 2e-14-1086 / 18.12.2014

OBJECT TO BE TESTED: Compact fluorescent lamp - CFL Model: GU10/Spiral -11W, cat. No: 99212158
Model representative of: GU10/Spiral -5W cat.№ 99212422; GU10/Spiral -5W cat.№99212156
GU10/Spiral -9W cat.№ 99212423; GU10/Spiral -9W cat.№ 99212157; GU10/Spiral -11W cat.№99212424
*(name of object to be tested, type, model, quantity,
type – portable, fixed, for walling in and other)*

APPLICANT FOR TEST: "ELMARK INDUSTRIES" SC. 2 Dobrudja Blvd. Dobrich, Bulgaria,
Tel.: 058 500 055, e-mail: denkov@elmark.bg
Application № 1086 / 10.11.2014
(name of the firm – applicant, address, telephone, number and date of the test application)

METHOD OF TEST : BDS EN EN 60968:2013+A1:2014 Self-ballasted lamps for general lighting services;
Safety requirements
(number and name of the standards)

DATE OF ACCEPTANCE IN THE TEST LABORATORY: 17.11.2014

CODE OF THE OBJECT: 1 piece
(identification number, year of production)

MANUFACTURER: "ELMARK INDUSTRIES" SC. 2 Dobrudja Blvd. Dobrich, Bulgaria,
Tel.: 058 500 055, e-mail: denkov@elmark.bg
(firm, trade mark, address)

DECLARED TECHNICAL DATA: Rated voltage – 230 V
Rated frequency – 50 Hz
Rated power – 11 W
Cab – GU10

DATE OF TEST PERFORMANCE : 17.11.2014 – 18.12.2014

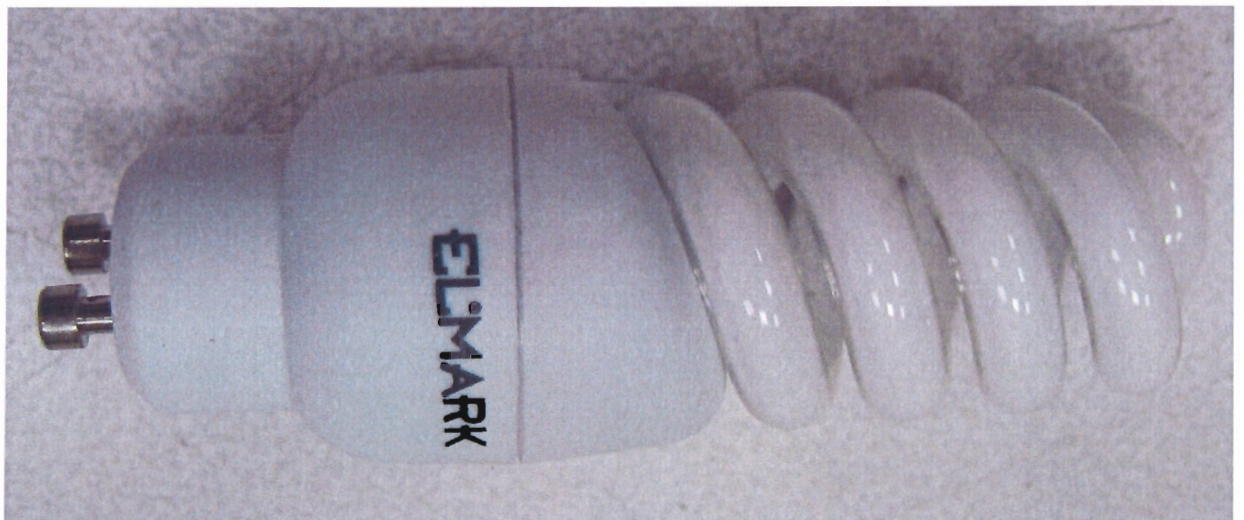
LABORATORY CHIEF :
/ T. Hristov /



**The results showed in present certificate concern tested sample only
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Copy of identification table and/or photo of tested object



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RESULTS OF TESTING:

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BDS EN 60968:2013

Test report : N° 2e-14-1086 / 18.12.2014

N°	Factor name	Units	Standard method	N° of sample	Test results	Factor volume and tolerance	Test conditions
1.	Interchangeability	-	cl. 6	1086	-	cl. 6	-
1.1	Check lamp cap dimensions	mm mm mm mm mm mm mm mm	cl. 6.1	1086 1086 1086 1086 1086 1086 1086 1086	A = 4,99 B = 2,96 E = 2,85 F1 = 6,10 F2 = 3,15 J = 0,00 L = 21,51 M = 14,86	BDS EN 60061-1 Sheet 7004-121-1 A = 4,9 ÷ 5,1 B = 2,9 ÷ 3,1 E < 3,1 F1 < 6,4 F2 > 2,9 J < 0,6 L > 21,5 M = 14 ÷ 16	-
2.	Protection against electric shock	-	cl. 7	1086	-	cl. 7	-
2.1	Check with test finger	N	cl. 7	1086	withstand 10	cl. 7 10	-
3.	Insulation resistance and electric strength after humidity treatment	-	cl. 8	1086	-	cl. 8	48 h t=25°C HR = 93%
3.1	Insulation resistance	MΩ	cl. 8.2	1086	R > 999,9	cl. 8.2 R > 4	1 min , 500 V
3.2	Electric strength	V	cl. 8.3	1086	withstand U = 4000	cl. 8.3 U(test) = 4000	1 min , 50 Hz
4.	Mechanical strength	-	cl. 9	1086	-	cl. 9	-
4.1	Torsion resistance of lamps	N.m	cl. 9	1086	-	cl. 9	-
4.2	Protection against electric shock after mechanical strength test	-	cl. 7	1086	-	cl. 7	-
5.	Cap temperature rise (above ambient)	K	cl. 10	1086	29	cl. 10 < 120	U _{sup} = 230 V t _{amb} = 23°C
6.	Resistance to heat	mm	cl. 11	1086	0,8	cl. 11 ≤ 2	t=125°C 60 min
7.	Resistance to flame and ignition	°C	cl. 12	1086	no ignition at 650°C	cl. 12 650	

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Used technical equipments:

№	Designation	Type	Manufacturer	Identification №	Date of last calibration
1.	Appliance multitester	CA6160	CHAUVIN ARNOUX France	16010173	21.03.2014
2.	Digital multimeter	UNIGOR 390	LEM- Austria	PI 3288	19.03.2014
3.	Climatic chamber	Alpha 990H	Design Environmental England	A3793	-
4.	Multi channel thermometer	MT100TD-16	Bulgaria	0418/2009	09.06.2014
5.	Digital gauge	-	China	090	18.12.2014
6.	Thermometer-hygrometer	177-H1	TESTO Germany	01320300/902	19.04.2012
7.	Appliances, devices and gauges	-	Bulgaria	-	21.07.2014

TEST PERFORMER: 1.....

/ T. Hristov /



2.....

/ D. Chavalinov /

HEAD OF LABORATORY:.....

/ T. Hristov /

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