



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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TEST REPORT

№ 2e-14-1065 / 31.10.2014

OBJECT TO BE TESTED: LED lamp Model: LED50SMD3014 - 5,5 W cat. No: 99LED421
Model representative of: LED60SMD3528 - 3W cat. № 99LED413 и 99LED414;
LED50SMD3014 - 5,5W cat. № 99LED422;
LEDSMDPAR16 cat. № 99LED607 и 99LED608
(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 № 1065 / 16.10.2014
(name of the firm – applicant, address, telephone, number and date of the test application)

METHOD OF TEST : BDS EN 62560:2012 Self-ballasted LED-lamps for general lighting services by voltage > 50 V –
Safety specifications
(number and name of the standards)

DATE OF ACCEPTANCE IN THE TEST LABORATORY: 16.10.2014

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 - 240 V
Rated frequency – 50 - 60 Hz
Rated power – 5,5 W
Cab - E27

DATE OF TEST PERFORMANCE : 16.10.2014 – 31.10.2014

LABORATORY CHIEF :

/ T. Hristov



**The results showed in present certificate concern tested sample only
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laboratory**

Copy of identification table and/or photo of tested object



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

RESULTS OF TESTING:

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BDS EN 62560:2012

Test report : N° 2e-14-1065 / 31.10.2014

Nº	Factor name	Units	Standard method	Nº of sample	Test results	Factor volume and tolerance	Test conditions
1.	Interchangeability	-	cl. 6	1065	-	cl. 6	-
1.1	Check lamp cap dimensions	mm mm mm	cl. 6.1	1065 1065 1065	S = 8,3 d = 26,11 d ₁ = 24,12	cl. 6.1 Table 1 BDS EN 60061-1 S = 7 ÷ 8,5 d = 26,05 ÷ 26,45 d ₁ < 24,26	-
2.	Protection against accidental contact with live parts	-	cl. 7	1065	-	cl. 7	-
2.1	Check with test finger	N	BDS EN 61347-1 cl. 10	1065	withstand 10	cl. 7 10	-
3.	Insulation resistance and electric strength after humidity treatment	-	cl. 8	1065	-	cl. 8	48 h t = 25°C HR = 93%
3.1	Insulation resistance	MΩ	cl. 8.2	1065	R > 999,9 withstand	cl. 8.2 R > 4	1 min , 500 V
3.2	Electric strength	V	BDS EN 60598-1 +A11 cl.10.2.2	1065	U = 2960	cl. 8.3 U(test) = 2960	1 min , 50 Hz
4.	Mechanical strength	-	cl. 9	1065	-	cl. 9	-
4.1	Torsion resistance of unused lamps	N.m	cl. 9.1	1065	withstand M = 3	cl. 9.1 M = 3	-
4.2	Insulation resistance and electric strength after mechanical strength test	-	cl. 9.3	1065	-	cl. 9.3	-
4.1.1	Insulation resistance	MΩ	cl. 8.2	1065	R > 999,9 withstand	cl. 8.2 R > 4	1 min , 500 V
4.2.1	Electric strength	V	BDS EN 60598-1 +A11 cl.10.2.2	1065	U = 2960	cl. 8.3 U(test) = 2960	1 min , 50 Hz
5.	Cap temperature rise (above ambient)	K	cl. 10	1065	13	cl. 10 < 120	U _{sup} = 240 V t _{amb} = 23°C
6.	Resistance to heat	mm	cl. 11	1065	0,8	cl. 11 ≤ 2	t = 125°C 60 min
7.	Resistance to flame and ignition	°C	cl. 12	1065	no ignition at 650°C	cl. 12 650	-
8.	CREEPAGE DISTANCES AND CLEARANCES:	-	cl. 14	1065	-	cl. 14	-
8.1	Creepage distances for a.c. (50 Hz) sinusoidal voltages ≤ 250 V	mm	BDS EN 61347-1 cl. 16	1065	6,4	BDS EN 61347-1, cl. 16 Table 3 ≥ 2,5	-
8.2	Clearances for a.c. (50 Hz) sinusoidal voltages ≤ 250 V	mm	BDS EN 61347-1 cl. 16	1065	6,4	BDS EN 61347-1, cl. 16 Table 3 ≥ 1,5	-

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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	31.10.2014
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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