



**LABORATORY FOR TESTING OF MACHINERY,
EQUIPMENT AND DEVICES**

CENTER FOR TESTING AND EUROPEAN CERTIFICATION LTD

2, Industrialna Str., Stara Zagora, Bulgaria, www.ctec-sz.com
Tel.: +359 42 620 368 Fax: +359 42 602 377 e-mail:ctec_limisu@abv.bg

TEST REPORT

№ 2e-14-1063 / 31.10.2014

OBJECT TO BE TESTED: LED lamp Model: LED50SMD3014 - 5,5 W cat. No: 99LED415
Model representative of: LED21SMD5050 - 3W cat. № 99LED403 и 99LED404
LED60SMD3528 - 3W cat. № 99LED405, 99LED406, 99LED407,
99LED408, 99LED409 и 99LED410;
LED50SMD3014 - 5,5W cat. № 99LED416;
LEDSMDGU10 cat. № 99LED595, 99LED596, 99LED597,
99LED598 и 99LED599

*(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 № 1063 / 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 – GU10

DATE OF TEST PERFORMANCE : 16.10.2014 – 31.10.2014

LABORATORY CHIFF :
/ T. Hristov /



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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 62560:2012

Test report : N° 2e-14-1063 / 31.10.2014

Nº	Factor name	Units	Standard method	Nº of sample	Test results	Factor volume and tolerance	Test conditions
1.	Interchangeability	-	cl. 6	1063	-	cl. 6	-
1.1	Check lamp cap dimensions	mm	cl. 6.1	1063	A = 4,95	BDS EN 60061-1 Sheet 7004-121-1 A = 4,9 ÷ 5,1	
		mm		1063	B = 2,97	B = 2,9 ÷ 3,1	
		mm		1063	E = 2,88	E < 3,1	
		mm		1063	F1 = 6,11	F1 < 6,4	
		mm		1063	F2 = 3,14	F2 > 2,9	
		mm		1063	J = 0,00	J < 0,6	
		mm		1063	L = 21,52	L > 21,5	
		mm		1063	M = 14,86	M = 14 ÷ 16	
2.	Protection against accidental contact with live parts	-	cl. 7	1063	-	cl. 7	-
2.1	Check with test finger	N	BDS EN 61347-1 cl. 10	1063	withstand 10	cl. 7 10	-
3.	Insulation resistance and electric strength after humidity treatment	-	cl. 8	1063	-	cl. 8	48 h t=25°C HR = 93%
3.1	Insulation resistance	MΩ	cl. 8.2	1063	R > 999,9	cl. 8.2 R > 4	1 min , 500 V
3.2	Electric strength	V	BDS EN 60598-1 +A11 cl.10.2.2	1063	withstand U = 2960	cl. 8.3 U(test) = 2960	1 min , 50 Hz
4.	Mechanical strength	-	cl. 9	1063	-	cl. 9	-
4.1	Torsion resistance of unused lamps	N.m	cl. 9.1	1063	-	cl. 9.1	
4.2	Insulation resistance and electric strength after mechanical strength test	-	cl. 9.3	1063	-	cl. 9.3	
5.	Cap temperature rise (above ambient)	K	cl. 10	1063	12	cl. 10 < 120	U _{sup} = 240 V t _{amb} = 23°C
6.	Resistance to heat	mm	cl. 11	1063	0,8	cl. 11 ≤ 2	t=125°C 60 min
7.	Resistance to flame and ignition	°C	cl. 12	1063	no ignition at 650°C	cl. 12 650	-
8.	CREEPAGE DISTANCES AND CLEARANCES:	-	cl. 14	1063	-	cl. 14	-
8.1	Creepage distances for a.c. (50 Hz) sinusoidal voltages ≤ 250 V	mm	BDS EN 61347-1 cl. 16	1063	4,9	BDS EN 61347-1 cl. 16 Table 3	
8.2	Clearances for a.c. (50 Hz) sinusoidal voltages ≤ 250 V	mm	BDS EN 61347-1 cl. 16	1063	4,9	BDS EN 61347-1 cl. 16 Table 3	

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Used technical equipments:

№	Designation	Type	Manufacturer	Identification №	Date of last calibration
1.	Appliance multimeter	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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