



**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-14-1064 / 31.10.2014

**OBJECT TO BE TESTED:** LED lamp Model: LED50SMD3014 - 5,5 W cat. No: 99LED419  
Model representative of: LED60SMD3528 - 3W cat. № 99LED411 и 99LED412;  
LED50SMD3014 - 5,5W cat. № 99LED420;  
LEDSMDPAR16 cat. № 99LED605 и 99LED606  
*(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 № 1064 / 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 – E14

**DATE OF TEST PERFORMANCE :** 16.10.2014 – 31.10.2014

**LABORATORY CHIEF :** .....  
/ T. Hristov



**The results showed in present certificate concern tested sample only  
The certificate could be reproduced as a whole only and after written permission of the  
laboratory**

Copy of identification table and/or photo of tested object



*The results showed in present certificate concern tested sample only  
The certificate could be reproduced as a whole only and after written permission of the laboratory*



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

**RESULTS OF TESTING:**

Page 3 of 4

BDS EN 62560:2012

Test report : N° 2e-14-1064 / 31.10.2014

N°	Factor name	Units	Standard method	N° of sample	Test results	Factor volume and tolerance	Test conditions
<b>1.</b>	<b>Interchangeability</b>	-	cl. 6	1064	-	cl. 6	-
1.1	Check lamp cap dimensions	mm mm mm	cl. 6.1	1064 1064 1064	$S_1=4,42$ $d=13,64$ $d_1=12,21$	cl. 6.1 Table 1 BDS EN 60061-1 $S= 3,2 \div 4,5$ $d=13,6 \div 13,84$ $d_1 < 12,24$	-
<b>2.</b>	<b>Protection against accidental contact with live parts</b>	-	cl. 7	1064	-	cl. 7	-
2.1	Check with test finger	N	BDS EN 61347-1 cl. 10	1064	withstand 10	cl. 7 10	-
<b>3.</b>	<b>Insulation resistance and electric strength after humidity treatment</b>	-	cl. 8	1064	-	cl. 8	48 h $t=25^\circ\text{C}$ HR = 93%
3.1	Insulation resistance	M $\Omega$	cl. 8.2	1064	$R > 999,9$	cl. 8.2 $R > 4$	1 min , 500 V
3.2	Electric strength	V	BDS EN 60598-1 +A11 cl.10.2.2	1064	withstand $U = 2960$	cl. 8.3 $U(\text{test}) = 2960$	1 min , 50 Hz
<b>4.</b>	<b>Mechanical strength</b>	-	cl. 9	1064	-	cl. 9	-
4.1	Torsion resistance of unused lamps	N.m	cl. 9.1	1064	withstand $M = 1,15$	cl. 9.1 $M = 1,15$	-
4.2	Insulation resistance and electric strength after mechanical strength test	-	cl. 9.3	1064	-	cl. 9.3	-
4.1.1	Insulation resistance	M $\Omega$	cl. 8.2	1064	$R > 999,9$	cl. 8.2 $R > 4$	1 min , 500 V
4.2.1	Electric strength	V	BDS EN 60598-1 +A11 cl.10.2.2	1064	withstand $U = 2960$	cl. 8.3 $U(\text{test}) = 2960$	1 min , 50 Hz
<b>5.</b>	<b>Cap temperature rise (above ambient)</b>	K	cl. 10	1064	14	cl. 10 < 120	$U_{\text{sup}} = 240 \text{ V}$ $t_{\text{amb}} = 23^\circ\text{C}$
<b>6.</b>	<b>Resistance to heat</b>	mm	cl. 11	1064	0,8	cl. 11 $\leq 2$	$t=125^\circ\text{C}$ 60 min
<b>7.</b>	<b>Resistance to flame and ignition</b>	$^\circ\text{C}$	cl. 12	1064	no ignition at $650^\circ\text{C}$	cl. 12 650	-
<b>8.</b>	<b>CREEPAGE DISTANCES AND CLEARANCES:</b>	-	cl. 14	1064	-	cl. 14	-
8.1	Creepage distances for a.c. (50 Hz) sinusoidal voltages $\leq 250 \text{ V}$	mm	BDS EN 61347-1 cl. 16	1064	3,8	BDS EN 61347-1 cl. 16 Table 2 $\geq 2,5$	-
8.2	Clearances for a.c. (50 Hz) sinusoidal voltages $\leq 250 \text{ V}$	mm	BDS EN 61347-1 cl. 16	1064	3,8	BDS EN 61347-1 cl. 16 Table 3	-

*The results showed in present certificate concern tested sample only  
The certificate could be reproduced as a whole only and after written permission of the laboratory*





**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 /



**The results showed in present certificate concern tested sample only  
The certificate could be reproduced as a whole only and after written permission of the laboratory**