



Center for Testing and  
European Certification

# CERTIFICATE

№ EMC- 14- 000- (2emc-14-808)- 065E

"CTEC" Ltd. certifies that

## Product

### LED tube

trade mark: **ELMARK**, cat. № **99LED355**

230-240 V AC; 50-60 Hz; 18 W; G 13

*representative of LED tubes with cat.№: 99LED351;*

*99LED352; 99LED353; 99LED354; 99LED355; 99LED356*

## Manufacturer

### ELMARK INDUSTRIES SC, Bulgaria

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**Complies with the** **EN 55015:2006+A1:2007+A2:2009** Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment  
**EN 61000-3-2:2006+A1:2009+A2:2009** Electromagnetic compatibility Part 3-2: Limits – Limits for harmonic current emissions (equipment input current  $\leq 16$  A per phase)  
**EN 61000-3-3:2008** Electromagnetic compatibility (EMC) - Part 3-3: Limits Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection  
**EN 61547:2009** Equipment for general lighting purposes EMC immunity requirements  
**EN 61000-4-2:2009** *Electromagnetic compatibility Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test*  
**EN 61000-4-4:2004+A1:2010** *Electromagnetic compatibility Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test*  
**EN 61000-4-5:2006** *Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test*  
**EN 61000-4-8:2010** *Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test*  
**EN 61000-4-11:2004** *Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests*

## Certificate has been issued on the base of

Test reports:

№ 2emc-e-14-808/09.10.2014

№ 2emc-i -14-808/09.10.2014

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Stara Zagora



Manager CTEC Ltd.

/dipl. eng. Blagovesta Shineva/

