

## EC DECLARATION OF CONFORMITY

**Name and address:** **ELMARK INDUSTRIES SC, Bulgaria**  
2 Dobrudzha blvd. Dobrich, Bulgaria  
Tel.: +35958/ 500-059

**Product:** **RECESSED LED FIXTURES GRF, IP65**

**Model:** **GRF LED0031-1.5W; 6000-6500K; GRF LED0091- 1.5W; 6000-6500K  
GRF LED0041-3.5W; 6000-6500K; GRF LED0061- 3.5W; 6000-6500K**

With the following we declare under our sole responsibility that above described product/s/, with a trade brand ELMARK is/are/ in conformity with the requirements of the following EC Council Directives:

- Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits (LVD Directive)
- Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast) (EMC Directive)
- Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment (commission regulation №1194/2012 of 12 December 2012).
- Directive 2011/65/EU of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive)

The above mentioned product/s/ conform/s/ with the requirements of the following standards, which introduce harmonized european standards:

**Standard:**

- EN 55015:2013**- Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
- EN 61000-3-2:2014**- Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current  $\leq$  16 A per phase)
- EN 61000-3-3:2013**- 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 60598-1:2015**- Luminaires - Part 1: General requirements and tests
- EN 60598-2-1:1989**- Luminaires - Part 2: Particular requirements - Section 1: Fixed general purpose luminaires
- EN 60598-2-2:2012** - Luminaires - Part 2-2: Particular requirements - Recessed luminaires
- EN 61347-1:2015**- Lamp controlgear - Part 1: General and safety requirements
- EN 61347-2-13:2014**- Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
- EN 13032-4:2015**- Light and lighting - Measurement and presentation of photometric data of lamps and luminaires - Part 4: LED lamps, modules and luminaires
- EN 50581:2012**- Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances
- EN 62471:2008**- Photobiological safety of lamps and lamp systems

The last two figures of the year of marking: 18

**Date:**

22/04/2018  
Dobrich

**Signature:**

Dipl.eng. Mileva  
Executive Director

