ICS 29.140.30 SLOVENSKÁ TECHNICKÁ NORMA Marec 2019

STN	**Výrobková norma zahŕňajúca svetelné značky s výbojkami a/alebo s diódami emitujúcimi svetlo (LED) a/alebo s elektroluminiscenčnými (EL) svetelnými zdrojmi s menovitým napätím neprevyšujúcim 1 000 V, s výnimkou všeobecného osvetlenia a osvetlenia na núdzové a dopravné účely**	**STN EN 50107-3** 36 0620

Product standard covering luminous signs with discharge lamps and/or LED (light emitting diodes) and/or EL (electroluminescent) lightsources with a nominal voltage not exceeding 1000 V, with the exclusion of general lighting, traffic- or emergency related purpose

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/19

Obsahuje: EN 50107-3:2018, EN 50107-3:2018/AC Oct.:2018

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EUROPEAN STANDARD
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EUROPÄISCHE NORM

EN 50107-3

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ICS 29.140.30

English Version

Product standard covering luminous signs with discharge lamps and/or LED (light emitting diodes) and/or EL (electroluminescent) lightsources with a nominal voltage not exceeding 1000 V, with the exclusion of general lighting, traffic- or emergency related purpose

Norme de produit couvrant les enseignes lumineuses avec des lampes à décharge et/ou à LED (diodes électroluminescentes) et/ou les sources lumineuses électroluminescentes (EL) avec une tension nominale ne dépassant pas 1000 V, à l'exclusion de l'éclairage général ainsi que des enseignes relatives à la circulation routière et aux situations d'urgence

Produktnorm für Lichtwerbeanlagen mit Entladungslampen und/oder LED- (lichtemittierende Dioden) und/oder EL- (elektrolumineszierende) Lichtquellen mit einer Nennspannung bis einschließlich 1 000 V, ausgenommen Allgemeinbeleuchtung, Verkehrs- oder Notbeleuchtung

This European Standard was approved by CENELEC on 2017-09-18. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Contents

European foreword

This document (EN 50107-3:2018) has been prepared by CLC/BTTF 142-1 “Product requirements for signs, artwork and accent lighting using low voltage cold cathode and/or LED”.

The following dates are fixed:

—	latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2019-02-03
—	latest date by which the national standards conflicting with this document have to be withdrawn	(dow)	2021-08-03

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1 Scope

This product standard contains electrical safety requirements for luminous signs, light-artwork or architectural accent lighting (finished functional sign, abbreviated: sign) using light sources with a nominal voltage not exceeding 1000 V with the exclusion of general lighting, traffic- or emergency related purposes.

The finished functional sign as a product fulfilling its intended purpose as luminous sign can be achieved by combining products with similar purpose through installation (according to HD 384 series/HD 60364) in order to yield a new product by itself.

NOTE 1 The scope of this product standard is specified by the areas C, D and E in the figure of Annex A.

NOTE 2 Even if the physical execution of a particular luminous sign might qualify the luminous sign to meet the requirements of a luminaire according to EN 60598, the exclusion of general lighting, traffic and emergency related purpose is intended to avoid the requirements of EN 60598 which are impracticable and/or impossible to fulfill for most luminous signs. To cover the special safety problems related with luminous signs, the present product standard is intended.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 50107-1:2002, *Signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV - Part 1: General requirements*

EN 50107-2, *Signs and luminous-discharge-tube installations operating from a no-load rated output voltage exceeding 1 kV but not exceeding 10 kV - Part 2: Requirements for earth-leakage and open-circuit protective devices*

EN 60081, *Double-capped fluorescent lamps - Performance specifications (IEC 60081)*

EN 60529:1991, *Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)*

EN 60598-2-23, *Luminaires - Part 2-23: Particular requirements - Extra low-voltage lighting systems for filament lamps (IEC 60598-2-23)*

EN 60901, *Single-capped fluorescent lamps - Performance specifications (IEC 60901)*

EN 60921, *Ballasts for tubular fluorescent lamps - Performance requirements (IEC 60921)*

EN 60929, *AC-supplied electronic ballasts for tubular fluorescent lamps – Performance requirements (IEC 60929)*

EN 61050, *Transformers for tubular discharge lamps having a no-load output voltage exceeding 1 kV (generally called neon-transformers) - General and safety requirements (IEC 61050)*

EN 61195, *Double-capped fluorescent lamps - Safety specifications (IEC 61195)*

EN 61199, *Single-capped fluorescent lamps - Safety specifications (IEC 61199)*

EN 61347-1:2008, *Lamp controlgear - Part 1: General and safety requirements (IEC 61347-1:2007)*

EN 61347-2-2:2012, *Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps (IEC 61347-2-2:2011)*

EN 61347-2-3, *Lamp controlgear – Part 2-3: Particular requirements for a.c. supplied electronic ballasts for fluorescent lamps (IEC 61347-2-3)*

EN 61347-2-8, *Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps (IEC 61347-2-8)*

EN 61347-2-10:2001, *Lamp controlgear - Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes) (IEC 61347-2-10:2000)*

EN 61347-2-13:2006, *Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (IEC 61347-2-13:2006)*

EN 62031:2008, *LED modules for general lighting - Safety specifications (IEC 62031:2008)*

EN 62384, *DC or AC supplied electronic control gear for LED modules - Performance requirements (IEC 62384)*

EN 62532, *Fluorescent induction lamps - Safety specifications (IEC 62532)*

HD 384/60364 *(all parts), Electrical installations of buildings / Low-voltage electrical installations (IEC 60364, all parts)*

IEC 60050-826, *International Electrotechnical Vocabulary - Part 826: Electrical installations*

EN ISO 7010:2012, *Graphical symbols - Safety colours and safety signs - Registered safety signs (ISO 7010:2011)*