SLOVENSKI STANDARD
SIST EN 61347-2-7:2012/A1:2019

01-september-2019

Stikalne naprave za sijalke - 2-7. del: Posebne zahteve za enosmerno napajane elektronske predstikalne naprave za zasilno razsvetljavo - Dopolnilo A1 (IEC 61347 -2-7:2011/A1:2017)

Lamp controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) (IEC 61347-2-7:2011/A1:2017)

Geräte für Lampen - Teil 2-7: Besondere Anforderungen an batterieversorgte elektronische Betriebsgeräte für die Notbeleuchtung (mit Einzelbatterie) (IEC 61347-2-7:2011/A1:2017)

Amendement 1 - Appareillages de lampes - Partie 2-7: Règles particulières relatives aux appareillages électroniques alimentés par batterie pour l'éclairage de secours (autonome) (IEC 61347-2-7:2011/A1:2017)

Ta slovenski standard je istoveten z: EN 61347-2-7:2012/A1:2019

ICS:

29.130.01	Stikalne in krmilne naprave na splošno	Switchgear and controlgear in general
29.140.99	Drugi standardi v zvezi z žarnicami	Other standards related to lamps

SIST EN 61347-2-7:2012/A1:2019 en

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 61347-2-7:2012/A1

June 2019

ICS 29.140.99

English Version

Lamp controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained) (IEC 61347-2-7:2011/A1:2017)

Appareillages de lampes - Partie 2-7: Règles particulières relatives aux appareillages électroniques alimentés par batterie pour l'éclairage de secours (autonome) (IEC 61347-2-7:2011/A1:2017)

Geräte für Lampen - Teil 2-7: Besondere Anforderungen an batterieversorgte elektronische Betriebsgeräte für die Notbeleuchtung (mit Einzelbatterie) (IEC 61347-2-7:2011/A1:2017)

This amendment A1 modifies the European Standard EN 61347-2-7:2012; it was approved by CENELEC on 2019-05-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

European foreword

The text of document 34C/1354/FDIS future edition 1 of IEC 61347-2-7/A1, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 61347-2-7:2012/A1:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-05-01

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s), see informative Annex ZZ, which is an integral part of this document.

Endorsement notice

The text of the International Standard IEC 61347-2-7:2011/A1:2017 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 61347-2-13	NOTE	Harmonized as EN 61347-2-13

Replace Annex ZA of EN 61347-2-7:2012 by the following one:

Annex ZA
(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	Title	EN/HD	Year
IEC 60081	-	Double-capped fluorescent lamps - Performance specifications	EN 60081	1998
			EN 60081:1998/A1	2002
			EN 60081:1998/A2	2003
			EN 60081:1998/A3	2005
			EN 60081:1998/A4	2010
			EN 60081:1998/A5	2013
			EN 60081:1998/A6	2017
			+A11	2018
IEC 60598-2-22	-	Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting	EN 60598-2-22	2014
			+AC	2015
			EN 60598-2-22/FprA1	2017
IEC 60901	-	Single-capped fluorescent lamps - Performance specifications	EN 60901	1996
			EN 60901:1996/A1	1997
			EN 60901:1996/A2	2000
			EN 60901:1996/A3	2004
			EN 60901:1996/A4	2008
			EN 60901:1996/A5	2012
			EN 60901:1996/A6	2017

Publication	Year	Title	EN/HD	Year
IEC 60921		Ballasts for tubular fluorescent lamps - Performance requirements	EN 60921	2004
			EN 60921:2004/A1	2006
IEC 60929	-	AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements	EN 60929	2011
			+AC	2011
			EN 60929:2011/A1	2016
IEC 61347-1	-	Lamp controlgear - Part 1: General and safety requirements	EN 61347-1	2015
IEC 61347-2-3	-	Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps	EN 61347-2-3	2011
			+AC	2011
			+A1	2017
IEC 61558-1	2005	Safety of power transformers, power supplies, reactors and similar products -- Part 1: General requirements and tests	EN 61558-1	2005
+A1	2009		+A1	2009
IEC 61558-2-1	2007	Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications	EN 61558-2-1	2007
IEC 61558-2-6	2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers	EN 61558-2-6	2009
IEC 61558-2-16	2009	Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units	EN 61558-2-16	2009
IEC 62034		Automatic test systems for battery powered emergency escape lighting	EN 62034	2012

Annex ZZ
(informative)

Relationship between this European Standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization 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 [2014 OJ L96].

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 – Correspondence between this European Standard and Annex I of Directive 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU	Clause(s) / sub-clause(s) of this EN	Remarks / Notes
(1)(a)	Clause 7	None
(1)(b)	Clause 4	None
(1)(c)	See items 2 and 3 of this table	None
(2)(a)	Clause 8, 9, 10, 11, 12, 16, 17, 18, 19, 22, 23, 28, 29, 30, 31, 32	EMF is not covered in this standard. EMF for lighting equipment is covered by EN 62493.
(2)(b)	Clause 9, 22, 23, 28, 31, 32	None
(2)(c)	Clause 9, 22, 23, 28, 31, 32	None
(2)(d)	Clause 8, 9, 10, 11, 12, 16, 17, 18, 19, 22, 23, 28, 31, 32	None
(3)(a)	Clause 4	None
(3)(b)	Clause 4	None
(3)(c)	Clause 9, 14, 29, 30, 31, 32, 33	None.

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European Standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard.

IEC 61347-2-7

Edition 3.0 2017-10

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 1
AMENDEMENT 1

Lamp controlgear –
Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)

Appareillages de lampes –
Partie 2-7: Règles particulières relatives aux appareillages électroniques alimentés par batterie pour l'éclairage de secours (autonome)

INTERNATIONAL ELECTROTECHNICAL COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

ICS 29.140.99

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FOREWORD

This amendment has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

The text of this amendment is based on the following documents:

FDIS	Report on voting
34C/1354/FDIS	34C/1359/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

INTRODUCTION to Amendment 1

EBLF is the ratio of the light output of a light source in emergency mode to the rated light output under normal conditions. EBLF is controlled by the output characteristics (current, voltage, power) of the controlgear with which the light source is operated.

For conventional lamps like fluorescent lamps, the EBLF is defined by the light output ratio of the lamp operated at 100 % and in emergency mode.

$$EBLF = \Phi_{emergency} / \Phi_{100\ \%}$$

For this measurement no special lamp is required, it is expected that all lamps of the same type show a very similar light output ratio independent of its manufacturer. The measurement is done at an ambient temperature of 25 °C. Due to the same dimensions and the identical cooling system (free air) the thermal conditions are identical for all lamps. The result is fully reproducible without any additional condition.

Special requirements for LED light sources

The light output of LED light sources depends also on the temperature at which they are operated. Typically the temperature is controlled by a heat sink on which it is mounted (e.g. luminaire surface).

This amendment describes a test method to evaluate the EBLF via an output factor (EOF_X) taking into account that the ratio of the forward current of the LED controlgear is directly proportional to the LED light output. Any non-linearity due to the increased efficacy at lower operation temperature leads to an increased tolerance of the light output in the emergency mode but always positive.

Controlgear, which operates the LED light source in normal operation as well as in emergency operation can be marked directly with the output factor. Controlgear, operating the LED module in emergency mode only needs to be marked with the output value, for example the forward current $I_{emergency}$.

1 Scope

In the last paragraph, delete the first two sentences and in the third sentence, replace the first word "it" with "This standard".

3 Terms and definitions

3.4

Replace, in the definition, “ballast” with “controlgear”.

3.15

Delete, in the definition, the words "an automatic testing".

Add, at the end of Clause 3, the following new terminological entries: