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**LED-sijalke za splošno razsvetljavo z vgrajeno predstikalno napravo pri napajalni napetosti nad 50 V - Tehnične zahteve - Dopolnilo A2 (IEC 62612:2013/A2:2018)**

Self-ballasted LED lamps for general lighting services with supply voltages > 50 V - Performance requirements (IEC 62612:2013/A2:2018)

LED-Lampen mit eingebautem Vorschaltgerät für Allgemeinbeleuchtung mit Versorgungsspannungen > 50 V - Anforderungen an die Arbeitsweise (IEC 62612:2013/A2:2018)

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Lampes à LED autoballastées pour l'éclairage général avec des tensions d'alimentation > 50 V - Exigences de performances (IEC 62612:2013/A2:2018)

**Ta slovenski standard je istoveten z: EN 62612:2013/A2:2018**

**ICS:**

29.140.01      Žarnice na splošno      Lamps in general

**SIST EN 62612:2014/A2:2019**      en

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EUROPEAN STANDARD

**EN 62612:2013/A2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2018

ICS 29.140.01

English Version

**Self-ballasted LED lamps for general lighting services with  
supply voltages > 50 V - Performance requirements  
(IEC 62612:2013/A2:2018)**

Lampes à LED autballastées pour l'éclairage général avec  
des tensions d'alimentation > 50 V - Exigences de  
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Allgemeinbeleuchtung mit Versorgungsspannungen > 50 V  
- Anforderungen an die Arbeitsweise  
(IEC 62612:2013/A2:2018)

This amendment A2 modifies the European Standard EN 62612:2013; it was approved by CENELEC on 2018-09-14. 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.

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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.

[SIST EN 62612:2014/A2:2019](https://standards.iteh.ai/catalog/standards/sist/de01125b-4faa-46d4-acc9-309512e01301/62612-2013-a2-2018)

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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**

**EN 62612:2013/A2:2018 (E)****European foreword**

The text of document 34A/2086/FDIS, future IEC 62612:2013/A2, prepared by SC 34A "Lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62612:2013/A2:2018.

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) 2019-06-14
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2021-09-14

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 Directives, see informative Annexes ZZ, included in EN 62612:2013 and its amendments.

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**Endorsement notice**

SIST EN 62612:2014/A2:2019

The text of the International Standard IEC 62612:2013/A2:2018 was approved by CENELEC as a European Standard without any modification.

Replace Annex ZA of EN 62612:2013 by the following:

**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 Where 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](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u> series	<u>Title</u>	<u>EN/HD</u>	<u>Year</u> series
IEC 60050		International electrotechnical vocabulary -- Chapter 00: General index		
IEC 60068-2-14	-	Environmental testing - Part 2-14: Tests Test N: Change of temperature	-EN 60068-2-14	-
IEC 60081	-	Double-capped fluorescent lamps Performance specifications	-EN 60081	-
IEC 60630	-	Maximum lamp outlines for incandescent lamps	EN 60630	-
+ A2	2009		-	-
IEC 61000-3-2	2005	Electromagnetic compatibility (EMC) - Part- 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq$ 16 A per phase)		-
IEC 61000-4-7	-	Electromagnetic compatibility (EMC) - Part 4-7: Testing and measurement techniques - General guide on harmonics and interharmonics measurements and instrumentation, for power supply systems and equipment connected thereto	EN 61000-4-7	-
IEC 62560	-	Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications	EN 62560	-
IEC 62717	-	LED modules for general lighting Performance requirements	-EN 62717	-
IEC/TR 61341	-	Method of measurement of centre beam intensity and beam angle(s) of reflector lamps	EN 61341	-
IEC/TR 62732	-	Three-digit code for designation of colour- rendering and correlated colour temperature		-
IEC/TS 62504	-	General lighting - LEDs and LED modules -- Terms and definitions		-

**EN 62612:2013/A2:2018 (E)**

ANSI/IES LM-80-15	-	IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules	-
CIE 121	1996	The photometry and goniophotometry of luminaires	-
CIE 13.2	-	Methods of measuring and specifying colour rendering properties of light sources	-
CIE 13.3	1995	Method of measurement and specifying colour rendering properties of light sources	-
CIE 177	-	Colour rendering of white LED light-sources	-
CIE S 017/E	-	ILV: International Lighting Vocabulary	-

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IEC 62612

Edition 1.0 2018-08

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

AMENDMENT 2  
AMENDEMENT 2

Self-ballasted LED lamps for general lighting services with supply  
voltages > 50 V – Performance requirements

Lampes à LED autoballastées pour l'éclairage général avec des tensions  
d'alimentation > 50 V – Exigences de performances

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ELECTROTECHNICAL  
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COMMISSION  
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## FOREWORD

This amendment has been prepared by subcommittee 34A: 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
34A/2086/FDIS	34A/2097/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.

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## INTRODUCTION to Amendment 2

This amendment includes:

- a) Adjustment of Table 1 markings;
- b) Bypassing thermal device during test ( 11.3.4);
- c) Inclusion of LM-80 data;
- d) Maintained CRI.

## 2 Normative references

*Add the following new references:*

IEC 62717, *LED modules for general lighting – Performance requirements*

ANSI/IES LM-80-15, *IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules*



## 5.2 Places of marking

**Table 1**

*In the first column, replace item a) with the following new item a):*

- a) Rated luminous flux (lm), rated colour (see Table 3) and, for directional lamps only, beam angle

*In the first column, replace item b) with the following new item b):*

- b) Lamp photometric code (see Annex B) including initial and maintained colour variation category (see Table 4)

*Delete the entire row e)*

*In the first column, replace item f) with the following new item f):*

- f) For directional lamps only, peak intensity (cd)

*Delete NOTE 1 and renumber the NOTES that follow as NOTE 1 and NOTE 2.*

## 7.1 General test conditions

*Add, after the second paragraph, the following new text:*

For LED lamps using LED modules where compliance with IEC 62717 has been demonstrated, the test duration of 25 % of rated life time up to a maximum of 6 000 h may be avoided, provided that the LED module operates in its temperature and current limits as tested according to IEC 62717. The data for chromaticity and the lumen maintenance at 25 % of rated life, maximum 6 000 h from the IEC 62717 test report, shall be taken and used to fulfil the maintained value requirements of 10.1 and 11.2, respectively.

Alternatively, test data from ANSI/IES LM-80-15 shall be used for the derivation of maintained values at 25 % of rated life, maximum 6 000 h, together with related compliance criteria, as specified in Annex G.

## 10.2 Colour rendering index (CRI)

*Delete the second sentence of the first paragraph.*

*Replace the second and third paragraphs including the list items, with the following new text:*

See A.3.7 for more details.

*Compliance:*

*For all tested units in a sample the measured CRI values shall not be lower than 3 points from the rated CRI (see Table 1).*