

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

Lamps for road vehicles –
Performance requirements

Lampes pour véhicules routiers –
Prescriptions de performances



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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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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/1629/FDIS	34A/1646/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 web site 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- withdrawn,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.

1 Scope

Replace the existing first paragraph by the following:

This International Standard is applicable to lamps (filament lamps, discharge lamps and LED light sources) to be used in headlamps, fog-lamps and signalling lamps for road vehicles. It is especially applicable to those lamps which are listed in IEC 60809. However, the standard may also be used for other lamps falling under the scope of this standard.

Renumber the existing note as Note 1.

Add the following new Notes 2 and 3:

NOTE 2 This standard does not apply to luminaires.

NOTE 3 In this standard, the term LED light source is used, in other standards the term LED lamps may be used to describe similar products.

2 Normative references

Add the following references to the existing list:

CISPR 25, *Vehicles, boats and internal combustion engines – Radio disturbance characteristics – Limits and methods of measurement for the protection of on-board receivers*

IEC 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety – Lamp caps*

IEC 60068-2-14, *Environmental testing – Part 2–14: Tests – Test N: Change of temperature*

UN/ECE Regulation No. 128, *Uniform provisions concerning the approval of light emitting diode (LED) light sources for use in approved lamp units on power-driven vehicles and their trailers*

3 Terms and definitions

3.2 characteristic life

Replace, after the term defined, "T" by "T (or T_0)".

3.4 lumen maintenance

Add the following two examples after the definition:

Example 1 L_{70} is the time in hours to 70 % lumen maintenance.

Example 2 L_{50} is the time in hours to 50 % lumen maintenance.

3.5 initial luminous flux

Replace the existing definition by the following:

luminous flux of a lamp measured after the ageing specified in Annex C of IEC 60809 for filament lamps or in Annex D of this standard for discharge lamps or in Annex I of this standard for LED light sources

Add, after 3.10, the following new terms and definitions:

3.11 life B_{10}

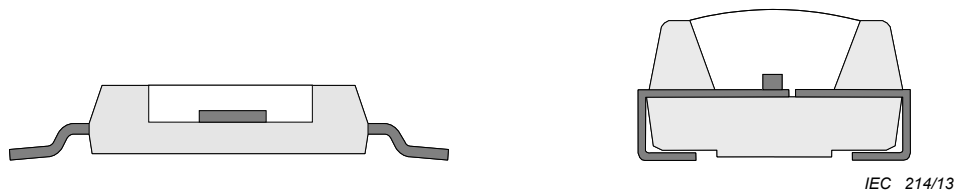
constant of the Weibull distribution indicating the time during which 10 % of a number of the tested lamps of the same type have reached the end of their individual lives

3.12 LED package

solid state device embodying a p-n junction, emitting optical radiation when excited by an electric current

Note 1 to entry: Examples are shown in Figure 1.

Note 2 to entry: In UNECE terminology the term "LED" is used with the same definition.



IEC 214/13

Figure 1 – Examples of LED packages