

STN	Všeobecné osvetlenie. Výrobky s diódami emitujúcimi svetlo (LED) a príslušenstvo. Termíny a definície.	STN EN 62504 36 0293
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General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions

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. 01/15

Obsahuje: EN 62504:2014, IEC 62504:2014

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EUROPEAN STANDARD

EN 62504

NORME EUROPÉENNE

EUROPÄISCHE NORM

September 2014

ICS 29.140.20

English Version

**General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions
(IEC 62504:2014)**

Éclairage général - Produits à diode électroluminescente (LED) et équipements associés - Termes et définitions (CEI 62504:2014)

Allgemeinbeleuchtung - Licht emittierende Dioden (LED) Produkte und verwandte Ausrüstung - Begriffe und Definitionen (IEC 62504:2014)

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Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 34/200/FDIS, future edition 1 of IEC 62504, prepared by IEC TC 34, "Lamps and related equipment", was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62504:2014.

The following dates are fixed:

- latest date by which the document has (dop) 2015-04-24
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IEC 60061-1	NOTE Harmonized as EN 60061-1.
IEC 60825-1	NOTE Harmonized as EN 60825-1.
IEC 61140	NOTE Harmonized as EN 61140.
IEC TR 61341	NOTE Harmonized as EN 61341.
IEC 61347-1	NOTE Harmonized as EN 61347-1.
IEC 611347-2-13	NOTE Harmonized as EN 61341-2-13.
IEC 62031	NOTE Harmonized as EN 62031.
IEC 62471	NOTE Harmonized as EN 62471.
IEC 62612	NOTE Harmonized as EN 62612.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60050	series	International Electrotechnical Vocabulary	-	series
CIE 127	-	Measurement of LEDs	-	-



INTERNATIONAL STANDARD

NORME INTERNATIONALE



**General lighting – Light emitting diode (LED) products and related equipment –
Terms and definitions**

**Éclairage général – Produits à diode électroluminescente (LED) et équipements
associés – Termes et définitions**



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INTERNATIONAL STANDARD

NORME INTERNATIONALE



**General lighting – Light emitting diode (LED) products and related equipment –
Terms and definitions**

**Éclairage général – Produits à diode électroluminescente (LED) et équipements
associés – Termes et définitions**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**GENERAL LIGHTING – LIGHT EMITTING DIODE (LED) PRODUCTS
AND RELATED EQUIPMENT – TERMS AND DEFINITIONS**

FOREWORD

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International Standard IEC 62504 has been prepared by IEC technical committee 34: Lamps and related equipment in collaboration with representatives from CIE.

This first edition cancels and replaces the IEC TS 62504 published in 2011.

The significant changes with respect to IEC TS 62504 are as follows:

- a) Terms from the International Electrotechnical Vocabulary that have not been modified are deleted.
- b) Alignment with the CIE has been done.
- c) An introduction has been added

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

FDIS	Report on voting
34/200/FDIS	34/205/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this 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

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INTRODUCTION

0.1 Principles of this International Standard

This document is based on IEC TS 62504:2011, General Lighting – LEDs and LED modules – Terms and definitions, which was under the responsibility of SC 34A but this revision as International Standard IEC 62504 transfers responsibility to TC 34.

The objective of this introduction is to help the reader to understand which terms are included and to have an understanding of the LED product overview.

Compared with IEC TS 62504, the main changes are as follows.

0.2 Terms to include

General lighting terms in IEC 60050-845:1987, International Electrotechnical Vocabulary that have not been modified will not be included in this standard.

Alignment with CIE is done. IEC will be the reference for products and related equipment and CIE for lighting terminology. Alignment with ANSI RP16-10, Chapter 6.8 was also considered.

The terms included are as far as possible used in LED standards and manufacturers' literature.,

Process to update IEC 60050-845:1987, the International Electrotechnical Vocabulary for definitions that will be considered as relevant is underway in IEC TC34.

0.3 Alphabetic sequence

In order to find the term in a logical sequence, we have grouped similar terms of a product, example:

LED lamp

- integrated LED lamp ,
- non-integrated LED lamp .

For each term, reference is made to the relevant standard if appropriate.

0.4 LED product tree:

The sequence from the first component, the LED die up to the LED luminaire is drawn.

The term LED does not represent a product, so no technical data can be linked to the term LED.

GENERAL LIGHTING – LIGHT EMITTING DIODE (LED) PRODUCTS AND RELATED EQUIPMENT – TERMS AND DEFINITIONS

1 Scope

This International Standard IEC 62504 is of assistance in the common understanding of terms and definitions, relevant for general lighting with LED technology. The terms included are those already available in IEC LED standards or used in manufacturers' literature.

This standard provides descriptive terms (like “LED light sources”) and measurable terms when modified from IEC 60050-845 (like “colour rendering index”).

NOTE Annex A gives overviews of LED package design and systems composed of LED light sources and controlgear.

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.

IEC 60050 (all parts), *International Electrotechnical Vocabulary* (available at <<http://www.electropedia.org>>).

CIE Technical Report 127:2007, *Measurement of LEDs*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN