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LED light source characteristics - Part 2: Design parameters and values

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

LED light source characteristics - Part 2: Design parameters and values
(IEC 63356-2:2024)

Caractéristiques de source lumineuse à LED - Partie 2:
Paramètres et valeurs de conception
(IEC 63356-2:2024)

Eigenschaften von LED-Lichtquellen - Teil 2:
Konstruktionsparameter und werte
(IEC 63356-2:2024)

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European foreword

The text of document 34A/2405/FDIS, future edition 2 of IEC 63356-2, prepared by SC 34A "Electric light sources" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63356-2:2024.

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) 2025-10-31
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IEC 62031:—¹ NOTE Approved as prEN IEC 62031:2024 (not modified)

IEC 63554:—² NOTE Approved as prEN IEC 63554:2024 (not modified)

IEC 63555:—³ NOTE Approved as prEN IEC 63555:2024 (not modified)

¹ Third edition under preparation. Stage at the time of publication: IEC CCDV 62031:2024.

² First edition under preparation. Stage at the time of publication: IEC CCDV 63554:2024.

³ First edition under preparation. Stage at the time of publication: IEC CCDV 63555:2024.

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**LED light source characteristics –
Part 2: Design parameters and values**

**Caractéristiques de source lumineuse à LED –
Partie 2: Paramètres et valeurs de conception**



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INTERNATIONAL STANDARD

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**LED light source characteristics –
Part 2: Design parameters and values**

**Caractéristiques de source lumineuse à LED –
Partie 2: Paramètres et valeurs de conception**

INTERNATIONAL
ELECTROTECHNICAL
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LED LIGHT SOURCE CHARACTERISTICS –**Part 2: Design parameters and values**

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IEC 63356-2 has been prepared by subcommittee 34A: Electric light sources, of IEC technical committee 34: Lighting. It is an International Standard.

This second edition cancels and replaces the first edition published in 2022. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) a new Clause 6 for circular LED modules with a circular light emitting surface for spot lighting has been added;
- b) a new Clause 7 for LEDni modules with a rectangular shape and a circular light emitting surface has been added.

The text of this International Standard is based on the following documents:

Draft	Report on voting
34A/2405/FDIS	34A/2412/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 63356 series, published under the general title *LED light source characteristics*, can be found on the IEC website.

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LED LIGHT SOURCE CHARACTERISTICS –

Part 2: Design parameters and values

1 Scope

This part of IEC 63356 specifies design parameters and design values of an LED light source or related interface characteristics.

NOTE 1 Interface characteristics can cover interfaces between the LED light source and the luminaire or the controlgear, or the LED light source and additional attachments.

NOTE 2 Interfaces can be related to for example electrical, mechanical, or optical aspects.

This document does not cover interchangeability between products from different LED light source manufacturers.

NOTE 3 Interchangeability is covered by IEC 63356-1.

Lamp caps and lampholders specified in the IEC 60061 series are not within the scope of this document.

Compliance criteria relating to parameters in this document are covered by:

- IEC 62031:—¹, LED modules – Safety requirements, or;
- IEC 63554:—², LED lamps – Safety requirements, or;
- IEC 63555:—³, LED light sources – Performance requirements.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

thermal interface material

TIM

material with specified thermal conductivity assembled between an LED module and a luminaire to enable improved heat dissipation

¹ Third edition under preparation. Stage at the time of publication IEC CCDV 62031:2024.

² First edition under preparation. Stage at the time of publication IEC CCDV 63554:2024.

³ First edition under preparation. Stage at the time of publication IEC CCDV 63555:2024.