

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

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English Version

## LED light source characteristics - Part 2: Design parameters and values (IEC 63356-2:2022)

Caractéristiques de source lumineuse à LED - Partie 2:  
Paramètres et valeurs de conception  
(IEC 63356-2:2022)

Eigenschaften von LED-Lichtquellen - Teil 2:  
Konstruktionsparameter und werte  
(IEC 63356-2:2022)

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## European foreword

The text of document 34A/2298/FDIS, future edition 1 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 63356-2:2022.

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- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-08-22
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IEC 60061 (series) NOTE Harmonized as EN 60061 (series)

IEC 63356-1 NOTE Harmonized as EN IEC 63356-1

# 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

# 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**

INTERNATIONAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

## LED LIGHT SOURCE CHARACTERISTICS –

## Part 2: Design parameters and values

## FOREWORD

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Draft	Report on voting
34A/2298/FDIS	34A/2313/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](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

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## INTRODUCTION

The IEC 63356 series – (LED light source characteristics) is split into two parts:

- Part 1: Data sheets

The scope of Part 1 covers data sheets that are comprehensive specifications for unique LED light sources (LED lamp or LED module). These are full specifications for products including, where necessary, information on interchangeability aspects, for example mechanical, electrical, optical.

Each data sheet in Part 1 relates to an individual type of LED lamp or LED module.

- Part 2: Design parameters and values

The scope of Part 2 covers design parameters and values that are used in the design of an LED light source (LED lamp or LED module) or a related component. Part 2 does not provide full product specifications but includes important interface aspects (e.g. mechanical, electrical, optical) that should be taken account of in the design of LED light sources and related components.

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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 63220<sup>1</sup> for safety, or IEC 63221<sup>2</sup> for performance.

### 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

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<sup>1</sup> Under consideration.

<sup>2</sup> Under consideration.