

INTERNATIONAL STANDARD

**LED light source characteristics -
Part 1: Data sheets**

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LED light source characteristics -
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FOREWORD

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IEC 63356-1 has been prepared by subcommittee 34A: Electric light sources, of IEC technical committee 34: Lighting. It is an International Standard.

This third edition cancels and replaces the second edition published in 2023. This edition constitutes a technical revision.

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

- a) addition of datasheets for GJ6.6d-2-x capped LED lamps.

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

Draft	Report on voting
34A/2444/CDV	34A/2461/RVC

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.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

INTRODUCTION

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

- IEC 63356-1: Data sheets

The scope of IEC 63356-1 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 IEC 63356-1 relates to an individual type of LED lamp or LED module.

- IEC 63356-2: Design parameters and values

The scope of IEC 63356-2 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. IEC 63356-2 does not provide full product specifications but includes important interface aspects (e.g. mechanical, electrical, optical) that should be considered in the design of LED light sources and related components.

1 Scope

This part of IEC 63356 specifies data sheets of LED lamps and LED modules with a series of parameters per data sheet for a specific LED light source that enables interchangeability between products from different LED light source manufacturers.

NOTE Compliance criteria relating to data sheet parameters in this document are covered by IEC 63554¹ or IEC 62031 for safety, and IEC 63555² for performance.

2 Normative references

There are no normative references in this document.

Bibliography

IEC 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps*, available at <http://std.iec.ch/iec60061>

IEC 60061-2, *Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders*, available at <http://std.iec.ch/iec60061>

IEC 62931:2017, *GX16t-5 capped tubular LED lamp - Safety specifications*

IEC 63554³, *LED lamps - Safety requirements*

IEC 63555⁴, *LED light sources - Performance requirements*

IEC 63356-2, *LED light source characteristics - Design parameters and values*

³ Under preparation. Stage at the time of publication IEC CDV 63554:2025.

⁴ Under preparation. Stage at the time of publication IEC CDV 63555:2024.