IEC 63356-1

Edition 3.0 2026-02

INTERNATIONAL STANDARD

REDLINE VERSION

LED light source characteristics -
Part 1: Data sheets

ICS 29.140.99

ISBN 978-2-8327-1087-6

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

_____

LED light source characteristics - Part 1: Data sheets

FOREWORD

1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
5) IEC itself does not provide any attestation of conformity. Independent certification bodies provide conformity assessment services and, in some areas, access to IEC marks of conformity. IEC is not responsible for any services carried out by independent certification bodies.
6) All users should ensure that they have the latest edition of this publication.
7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
8) Attention is drawn to the Normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
9) IEC draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). IEC takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, IEC had not received notice of (a) patent(s), which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at https://patents.iec.ch. IEC shall not be held responsible for identifying any or all such patent rights.

This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 63356-1:2023. A vertical bar appears in the margin wherever a change has been made. Additions are in green text, deletions are in strikethrough red text.

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 63220[1] for safety, or IEC 63221[2]~~ IEC 63554[3] or IEC 62031 for safety, and IEC 63555[4] 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 63220[5], *LED light sources – Safety requirements*~~

~~IEC 63221[6], *LED light sources – Performance requirements*~~

IEC 63554[7], *LED lamps - Safety requirements*

IEC 63555[8], *LED light sources - Performance requirements*

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

_____

~~[5] Under preparation. Stage at the time of publication IEC CDV 63220:2023 63554:2025.~~

~~[6] Under preparation. Stage at the time of publication IEC CDV 63221:2023 63555:2024.~~

[7] Under preparation. Stage at the time of publication IEC CDV 63554:2025.

[8] Under preparation. Stage at the time of publication IEC CDV 63555:2024.