

SVENSK STANDARD SS-EN IEC 62722-1, utg 2:2022

2022-10-19

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REDLINE VERSION

Ljusarmatur – Prestanda – Del 1: Allmänna fordringar

Luminaire performance – Part 1: General requirements

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Edition 2.0 2022-06 REDLINE VERSION

INTERNATIONAL STANDARD



Luminaire performance – Part 1: General requirements

INTERNATIONAL ELECTROTECHNICAL COMMISSION

ICS 29.140.40 ISBN 978-2-8322-3927-8

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRE PERFORMANCE –

Part 1: General requirements

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.
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This redline version of the official IEC Standard allows the user to identify the changes made to the previous edition IEC 62722-1:2014. 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 62722-1 has been prepared by subcommittee 34D: Luminaires, of IEC technical committee 34: Lighting. It is an International Standard.

This second edition cancels and replaces the first edition published in 2014. This edition constitutes a technical revision.

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

- a) The reference to and use of the measurement methods for non-active power consumption in accordance with IEC 63103 have been added.
- b) The pictograms of Annex C have been updated to represent modern light sources.

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

Draft	Report on voting
34D/1658/FDIS	34D/1660/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/standardsdev/publications.

A list of all parts in the IEC 62722 series, published under the general title *Luminaire* performance 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,
- replaced by a revised edition, or
- amended.

IMPORTANT – The "colour inside" logo on the cover page of this document indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

This part of IEC 62722 is a performance standard for luminaires (general requirements) and acknowledges the need for defining performance data to be provided, the presentation of this data, the basis of its measurement, and the associated tolerances that may can be reasonably expected. Information to support responsible environmental use is also included. Future Parts 2 of the IEC 62722 series will can be introduced where additional performance requirements for specific types of light sources are required. The structure of these performance standards also allows for the possibility of Part 3 of the IEC 62722 series to be introduced in the future should standardization of performance criteria linked to specific luminaire applications be determined as necessary (e.g. floodlighting, street lighting).

The provisions in this standard represent the technical knowledge of experts from the fields of the luminaire industry and associated components such as lamps and controlgear.

LUMINAIRE PERFORMANCE -

Part 1: General requirements

1 Scope

This part of IEC 62722 covers specific performance and environmental requirements for luminaires, incorporating electric light sources for operation from supply voltages up to 1 000 V. Unless otherwise detailed, performance data covered under the scope of this document are for the luminaires in a condition representative of new manufacture, with any specified initial aging procedures completed.

This document covers requirements for luminaires to support energy efficient use and responsible environmental management to the end of life. The object of this document is to provide a set of requirements which are considered to be generally applicable to most types of luminaires. Where additional performance requirements for specific types of light source are relevant, these are specified in the IEC 62722-2 series. The IEC 62722-2 series—may can also cover a wider scope of performance aspects appropriate to the particular light source technology.

NOTE. The structure of these performance standards also allows for the possibility of Part 3 standards to be introduced in the future should standardisation of performance criteria linked to specific luminaire applications be determined as necessary (e.g. floodlighting, street lighting, etc.).

It is the intention that the requirements of this Part 1 are to be met by the provision of information and data provided by the luminaire manufacturer (or responsible vendor). Conformity is considered to be met by the provision of the requested information. Any verification of data is to be conducted by the measurement requirements of this standard.

Semi-luminaires are not covered under the scope of this document.

For some types of luminaires (e.g. decorative/ or household) the provision of performance data under the scope of this document—may is not—be appropriate.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-845, *International Electrotechnical Vocabulary (IEV) – Part 845: Lighting* (available at http://www.electropedia.org)

IEC 60598-1, Luminaires – Part 1: General requirements and tests

IEC 60598-2 (all parts), Luminaires – Part 2: Particular requirements

IEC 60598-2-22, Luminaires — Part 2-22: Particular requirements — Luminaires for emergency lighting

IEC 62722-2 (all parts), Luminaire performance – Part 2: Particular requirements

IEC 63103:2020, Lighting equipment – Non-active mode power measurement

IEC TS 63105, Lighting systems and related equipment – Vocabulary

CIE 034:1977, Road lighting lantern and installation data: Photometrics, classification and performance

CIE 043:1979, Photometry of floodlights

CIE 121:1996, The photometry and goniophotometry of luminaires

CIE 121-SP1:2009, The photometry and goniophotometry of luminaires - Supplement 1: **Luminaires for emergency lighting**

NOTE Annex A provides details of regional standards the use of which are preferred in some countries.



SVENSK STANDARD SS-EN IEC 62722-1, utg 2:2022

Fastställd Sida 2022-10-19 1 (1+20)

Ansvarig kommitté

SEK TK 34

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Ljusarmatur – Prestanda – Del 1: Allmänna fordringar

Luminaire performance – Part 1: General requirements

Som svensk standard gäller europastandarden EN IEC 62722-1:2022. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 62722-1:2022.

Nationellt förord

Europastandarden EN IEC 62722-1:2022

består av:

- europastandardens ikraftsättningsdokument, utarbetat inom CENELEC
- IEC 62722-1, Second edition, 2022 Luminaire performance Part 1: General requirements utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 62722-1, utg 1:2016, gäller ej fr o m 2025-07-19.

ICS 29.140.40

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Det finns många fördelar med att ha gemensamma tekniska regler för bl a mätning, säkerhet och provning och för utförande, skötsel och dokumentation av elprodukter och elanläggningar.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 62722-1

August 2022

ICS 29.140.40

Supersedes EN 62722-1:2016

English Version

Luminaire performance - Part 1: General requirements (IEC 62722-1:2022)

Performance des luminaires - Partie 1: Exigences générales (IEC 62722-1:2022) Arbeitsweise von Leuchten - Teil 1: Allgemeine Anforderungen (IEC 62722-1:2022)

This European Standard was approved by CENELEC on 2022-07-19. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Ref. No. EN IEC 62722-1:2022 E

European foreword

The text of document 34D/1658/FDIS, future edition 2 of IEC 62722-1, prepared by SC 34D "Luminaires" of IEC/TC 34 "Lighting" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 62722-1:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2023-04-19 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2025-07-19 document have to be withdrawn

This document supersedes EN 62722-1:2016 and all of its amendments and corrigenda (if any).

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This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

Endorsement notice

The text of the International Standard IEC 62722-1:2022 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where 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>	EN/HD	<u>Year</u>
IEC 60050-845	-	International Electrotechnical Vocabulary. Lighting	-	-
IEC 60598-1	-	Luminaires - Part 1: General requirements and tests	EN IEC 60598-1	-
IEC 60598-2	series	Luminaires - Part 2-1: Particular requirements - Fixed general purpose luminaires	EN IEC 60598-2	series
IEC 62722-2	series	Luminaire performance - Part 2-1: Particular requirements for LED luminaires	EN 62722-2	series
IEC 63103	2020	Lighting equipment - Non-active mode power measurement	EN IEC 63103	2020
IEC TS 63105	-	Lighting systems and related equipment - Vocabulary		-
CIE 034	1977	Road lighting lantern and installation data: photometrics, classification and performance	-	-
CIE 043	1979	Photometry of floodlights	-	-
CIE 121	1996	The photometry and goniophotometry of luminaires	-	-



Edition 2.0 2022-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Luminaire performance – Part 1: General requirements

Performance des luminaires – Partie 1: Exigences générales

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION ELECTROTECHNIQUE INTERNATIONALE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LUMINAIRE PERFORMANCE –

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LUMINAIRE PERFORMANCE -

Part 1: General requirements

1 Scope

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Semi-luminaires are not covered under the scope of this document.

For some types of luminaires (e.g. decorative or household) the provision of performance data under the scope of this document is not appropriate.

2 Normative references

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IEC 60598-2 (all parts), Luminaires – Part 2: Particular requirements

IEC 62722-2 (all parts), Luminaire performance - Part 2: Particular requirements

IEC 63103:2020, Lighting equipment – Non-active mode power measurement

IEC TS 63105, Lighting systems and related equipment – Vocabulary

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CIE 043:1979, Photometry of floodlights

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