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INTERNATIONAL STANDARD

colour inside

Luminaire performance –
Part 1: General requirements

INTERNATIONAL
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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LUMINAIRE PERFORMANCE –

Part 1: General requirements

FOREWORD

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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- withdrawn,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.

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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.~~

IEC 62722-1

Edition 2.0 2022-06

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Luminaire performance – Part 1: General requirements

Performance des luminaires – Partie 1: Exigences générales



IEC 62722-1:2022-06(en-fr)

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

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PERFORMANCE DES LUMINAIRES –

Partie 1: Exigences générales

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L'IEC 62722-1 a été établie par le sous-comité 34D: Luminaires, du comité d'études 34 de l'IEC: Eclairage. Il s'agit d'une Norme internationale.

Cette deuxième édition annule et remplace la première édition parue en 2014. Cette édition constitue une révision technique.

Cette édition inclut les modifications techniques majeures suivantes par rapport à l'édition antérieure.

a) Des références à l'IEC 63103 ont été ajoutées afin d'appliquer les méthodes de mesurage de la consommation de puissance en mode non actif.
b) Les pictogrammes de l'Annexe C ont été mis à jour pour représenter les sources lumineuses modernes.

Le texte de cette Norme internationale est issu des documents suivants:

Projet	Rapport de vote
34D/1658/FDIS	34D/1660/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cette Norme internationale est l'anglais.

Ce document a été rédigé selon les Directives ISO/IEC, Partie 2, il a été développé selon les Directives ISO/IEC, Partie 1 et les Directives ISO/IEC, Supplément IEC, disponibles sous www.iec.ch/members_experts/refdocs. Les principaux types de documents développés par l'IEC sont décrits plus en détail sous www.iec.ch/standardsdev/publications.

Une liste de toutes les parties de la série IEC 62722, publiées sous le titre général *Performance des luminaires*, se trouve sur le site web de l'IEC.

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- reconduit,
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- remplacé par une édition révisée, ou
- amendé.

INTRODUCTION

La présente partie de l'IEC 62722 est une norme de performance pour les luminaires (exigences générales) et reconnaît la nécessité de définir les données de performance à fournir, la présentation de ces données, les principes de mesurage correspondants et les tolérances associées qui peuvent être raisonnablement attendues. Elle comporte également des informations pour une utilisation écoresponsable. Les futures Parties 2 de la série IEC 62722 peuvent être citées lorsque des exigences de performance supplémentaires sont exigées pour des types spécifiques de sources lumineuses. La structure de ces normes de performance ouvre également la possibilité d'ajouter ultérieurement une Partie 3 dans la série IEC 62722, si la normalisation des critères de performance associés aux applications de luminaires spécifiques est jugée nécessaire (par exemple, illumination, éclairage public).

PERFORMANCE DES LUMINAIRES –

Partie 1: Exigences générales

1 Domaine d'application

La présente partie de l'IEC 62722 couvre les exigences de performance et d'environnement spécifiques aux luminaires, qui incorporent des sources lumineuses électriques destinées à fonctionner sous des tensions d'alimentation jusqu'à 1 000 V. Sauf disposition contraire, les données de performance couvertes par le domaine d'application du présent document s'appliquent aux luminaires qui sont dans un état représentatif d'un produit neuf, où toutes les procédures de vieillissement initial spécifiées ont été réalisées.

Le présent document couvre les exigences relatives aux luminaires dans le but de mettre en œuvre une utilisation écoénergétique et une gestion écoresponsable jusqu'à la fin de vie des luminaires. L'objet du présent document est d'établir un ensemble d'exigences qui sont présumées s'appliquer de manière générale à la plupart des types de luminaires. Lorsque des exigences de performance supplémentaires sont pertinentes pour des types spécifiques de sources lumineuses, celles-ci sont spécifiées dans la série IEC 62722-2. La série IEC 62722-2 peut également couvrir un domaine d'application plus étendu concernant les aspects de performance qui s'appliquent à la technologie d'une source lumineuse particulière.

Les semi-luminaires ne relèvent pas du domaine d'application du présent document.

Pour certains types de luminaires (décoratifs ou domestiques, par exemple), la fourniture des données de performance couvertes par le domaine d'application du présent document n'est pas pertinente.

2 Références normatives

Les documents suivants sont cités dans le texte de sorte qu'ils constituent, pour tout ou partie de leur contenu, des exigences du présent document. Pour les références datées, seule l'édition citée s'applique. Pour les références non datées, la dernière édition du document de référence s'applique (y compris les éventuels amendements).

IEC 60050-845, *Vocabulaire électrotechnique international (IEV) – Partie 845: Eclairage* (disponible à l'adresse http://www.electropedia.org)

IEC 60598-1, *Luminaires – Partie 1: Exigences générales et essais*

IEC 60598-2 (toutes les parties), *Luminaires – Partie 2: Exigences particulières*

IEC 62722-2 (toutes les parties), *Performance des luminaires – Partie 2: Exigences particulières*

IEC 63103:2020, *Appareils d'éclairage – Mesure de puissance en mode non actif*

IEC TS 63105*, Lighting systems and related equipment – Vocabulary* (Disponible en anglais seulement)

CIE 034:1977, *Road lighting lantern and installation data: Photometrics, classification and performance* (disponible en anglais seulement)

CIE 043:1979, *Photometry of floodlights* (disponible en anglais seulement)

CIE 121:1996, *The photometry and goniophotometry of luminaires* (disponible en anglais seulement)