

STN P	Svetlo a osvetlenie Informačné modelovanie stavieb, vlastnosti pre osvetlenie Systémy osvetlenia (ISO/TS 7127: 2023)	STN P CEN ISO/TS 7127 36 0078
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Light and lighting - Building information modelling properties for lighting - Lighting systems (ISO/TS 7127:2023)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 01/25

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do októbra 2026 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

Obsahuje: CEN ISO/TS 7127:2024, ISO/TS 7127:2023

Oznámením tejto normy sa ruší
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TECHNICAL SPECIFICATION

CEN ISO/TS 7127

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October 2024

ICS 35.240.67

Supersedes CEN/TS 17623:2021

English Version

Light and lighting - Building information modelling properties for lighting - Lighting systems (ISO/TS 7127:2023)

Lumière et éclairage - Propriétés de modélisation des
informations de la construction pour l'éclairage -
Systèmes d'éclairage (ISO/TS 7127:2023)

Licht und Beleuchtung - BIM-Merkmale für die
Beleuchtung - Beleuchtungssysteme (ISO/TS
7127:2023)

This Technical Specification (CEN/TS) was approved by CEN on 30 September 2024 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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CEN ISO/TS 7127:2024 (E)

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European foreword

The text of ISO/TS 7127:2023 has been prepared by Technical Committee ISO/TC 274 "Light and lighting" of the International Organization for Standardization (ISO) and has been taken over as CEN ISO/TS 7127:2024 by Technical Committee CEN/TC 169 "Light and lighting" the secretariat of which is held by DIN.

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This document supersedes CEN/TS 17623:2021.

CEN ISO/TS 7127:2024 includes the following significant technical changes with respect to CEN/TS 17623:2021:

- Title changed to "Light and lighting — Building information modelling properties for lighting — Lighting systems";
- For some properties names were changed, descriptions improved, and examples added; however, all properties keep the same GUID and ID to preserve compatibility;
- New properties added in Table 1 to Table 8;
- New Table 9 with environmental properties of lighting systems.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Endorsement notice

The text of ISO/TS 7127:2023 has been approved by CEN as CEN ISO/TS 7127:2024 without any modification.

TECHNICAL SPECIFICATION

ISO/TS 7127

First edition
2023-08

Light and lighting — Building information modelling properties for lighting — Lighting systems

*Lumière et éclairage — Propriétés de modélisation des informations
de la construction pour l'éclairage — Systèmes d'éclairage*



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ISO/TS 7127:2023(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 274, *Light and Lighting*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Introduction

Building information modelling (BIM) is a concurrent process that gives engineering and construction professionals the tools to more efficiently plan, construct, and manage buildings and infrastructure.

Within standardisation committees much work is being performed to define the fundamental principles of BIM that will allow this to happen in an effective and consistent manner.

For lighting applications, it is essential that this work is monitored and where required input is made to ensure that the requirements for lighting applications are considered.

Light and lighting — Building information modelling properties for lighting — Lighting systems

1 Scope

This technical specification identifies and clarifies lighting properties for digital building design and maintenance.

This document provides all the needed properties to design and to describe lighting systems. These properties are intended to be used for mapping between data providers and requesters. The mapping of the identifiers enables the exchange of luminaire and sensing device data within different databases.

The unambiguous mapping and description of properties improves the data quality, reduces misinterpretations and the processing time in digital environments. Therefore, the properties listed in this document establish the essential description of lighting systems in BIM systems and databases.

The listed properties in this document are used to structure the product data sheet which is complemented with real product information.

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.

ISO 23386:2020, *Building information modelling and other digital processes used in construction — Methodology to describe, author and maintain properties in interconnected data dictionaries*

CIE S 017:2020, *ILV: International Lighting Vocabulary*

ISO 80000-7, *Quantities and units — Part 7: Light*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN