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BIM Properties for lighting - Luminaires and sensing devices

BIM Propriétés pour l'éclairage - Luminaires et capteurs

BIM Merkmale für die Beleuchtung - Leuchten und Sensoren

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Cont	tents		Page
Furon	ean foreword		2
-	luction		
1	Scope		5
2	Normative references		5
3	Terms and definitions		5
4	Principle structure		
4.1	General		
4.2	Detailed description of set of attributes		
4.2.1	General		
4.2.2	GUID		
4.2.3	ID		
4.2.4	Name		
4.2.5	Description		
4.2.6	Symbol		
4.2.7	Format, unit		
4.2.8	Value set		
4.2.9	Examples		8
4.3	Further IT-related attributes		
5	Properties for luminaires and sensing device		
5.1	Mechanical properties		
5.2	Electrical properties		
5.3	Emergency lighting properties		
5.4	Photometric properties		
5.5	Sensing device properties		
5.6	Mounting and accessory properties		
5.7	Marketing properties		
5.8	Operations and maintenance properties		59
Biblio	graphy		64
		(A)	
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			(1)

European foreword

This document (CEN/TS 17623:2021) has been prepared by Technical Committee CEN/TC 169 "Light and lighting", the secretariat of which is held by DIN.

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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 standardization 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.

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s, it is es, airements fo. 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.

1 Scope

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

This document provides all the needed properties to design and to describe luminaires and sensing devices. These properties are intended to be used as mapping properties for property 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 improve the data quality, reduce misinterpretations and the processing time in digital environments. Therefore, the properties listed in this document establish the essential description of luminaires and sensing devices 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.

EN 12464-1:2011, Light and lighting - Lighting of work places - Part 1: Indoor work places

EN 60598-1, Luminaires - Part 1: General requirements and tests

EN 60598-2-13:2006,¹ Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires

EN 60598-2-22:2014,² Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting

EN 61231, International lamp coding system (ILCOS) (IEC 61231)

EN ISO 23386, Building information modelling and other digital processes used in construction - Methodology to describe, author and maintain properties in interconnected data dictionaries (ISO 23386)

ISO 8601-1, Date and time - Representations for information interchange - Part 1: Basic rules

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at http://www.electropedia.org/

¹ As impacted by corrigendum EN 60598-2-13:2006/corrigendum Dec. 2006 and amendments EN 60598-2-13:2006/A1:2012 and EN 60598-2-13:2006/A1:2016.

² As impacted by amendment EN 60598-2-22:2014/A1:2020.