



BSI Standards Publication

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

National foreword

This Published Document is the UK implementation of CEN ISO/TS 7127:2024. It is identical to ISO/TS 7127:2023. It supersedes PD ISO/TS 7127:2023, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee EL/1, Light and lighting applications.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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31 October 2024	This corrigendum renumbers PD ISO/TS 7127:2023 as PD CEN ISO/TS 7127:2024

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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

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.

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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*

3 Terms and definitions

For the purposes of this document, the following terms and definitions given in CIE S 017, ISO 80000-7 and the following apply.

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

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

3.1 building information modelling BIM

use of a shared digital representation of a built object (including buildings, bridges, roads, process plants, etc.) to facilitate design, construction and operation processes to form a reliable basis for decisions

Note 1 to entry: The acronym BIM also stands for the shared digital representation of the physical and functional characteristics of any construction works.

[SOURCE: ISO 29481-1:2016, 3.2]

3.2

data dictionary

database that contains metadata

[SOURCE: ISO/IEC 2382:2015, 2121501]

3.3

attribute

data element for the computer-sensible description of a property, group of properties, etc.

Note 1 to entry: An attribute describes only one single detail of a property or a group of properties.

EXAMPLE The GUID of a property, the name of a property, the definition of a group of properties.

[SOURCE: ISO 23386:2020, 3.4, modified – Example extended]

3.4

property

inherent or acquired feature of an item

EXAMPLE Thermal efficiency, heat flow, sound reduction index, sound power level, colour.

[SOURCE: ISO 23386:2020, 3.17]

4 Principal structure

4.1 General

A lighting system (for example a luminaire or a sensing device) is described by specific properties, providing the possibility to communicate about it in an application or specification.

The properties for lighting systems have been organized in tables listed in [Clause 5](#) according to different disciplines. This sub-division is indicative only and not to be taken as exclusive:

- Mechanical properties – ID 01 ([Table 1](#));
- Electrical properties – ID 02 ([Table 2](#));
- Emergency lighting properties – ID 03 ([Table 3](#));
- Photometric properties – ID 04 ([Table 4](#));
- Sensing device properties – ID 05 ([Table 5](#));
- Mounting & Accessory properties – ID 06 ([Table 6](#));
- Marketing properties – ID 07 ([Table 7](#));
- Operations & Maintenance properties – ID 08 ([Table 8](#));
- Environmental properties – ID 09 ([Table 9](#)).

4.2 Detailed description of set of attributes

4.2.1 General

The structure of the attributes is according to ISO 23386:2020 and enhanced by the property ID.

The properties have no mandatory or optional aspect. All properties are equal in importance and hierarchy. The use case and the application provide a structure and are mandatory to the properties.

4.2.2 GUID

In ISO 23386:2020, PA001 named “Globally unique identifier”.

Identifier given to a product that guarantees its uniqueness throughout its entire life (defined in ISO 6707-2:2017, 3.2.46).

This attribute identifies the property unambiguously. A Globally Unique identifier GUID is generated using an algorithm. This machine-readable code will allow matching across databases, lists and data template.

In ISO 16739-1 (IFC) and ISO 12006-3 the compressed version of GUID is used. It can be uncompressed to the standard GUID with open tools.

4.2.3 ID

This attribute identifies the property unambiguously. It is human-readable and corresponds to the GUID.

Note The ID always starts with the table number from [4.1](#) followed by a dash and an individual serial number with four digits.

4.2.4 Name

In ISO 23386:2020, PA016 named “Names in language en-EN”.

The name of the property.

4.2.5 Description

In ISO 23386:2020, PA018 named “Descriptions in language en-EN”.

This attribute is used to provide a plain language description of the property.

For some descriptions the name is enough. To avoid the repeating of the name, just “*identical with name.*” is entered.

4.2.6 Symbol

In ISO 23386:2020, PA022 named “Symbols of the property in a given property group”.

Symbols for quantities are given in the ISO 80000 and IEC 80000 series. The symbols for quantities are written in italics. A given symbol can indicate different quantities. (ISO 80000-1:2022).

4.2.7 Format, Unit

In ISO 23386:2020, PA037 named “Digital format”.

Precision is the maximum number of significant digits that can be represented in a format, or the number of digits that a result is rounded to [ISO/IEC 60559:2020].

In ISO 23386:2020, PA033 named “Units”.

Concept type representing a scale that enables a value to be measured. Properties that do not have a unit are to be designated as not applicable (n.a.).

4.2.8 Value set

In ISO 23386:2020, PA039 named “List of possible values in language en-EN”.

Collection of acceptable values for a property. Values outside the value set are not permitted. Multiple values may be possible for some properties.

4.2.9 Examples

In ISO 23386:2020, PA019 named “Examples in language en-EN”.

Samples for a value of the specific property.

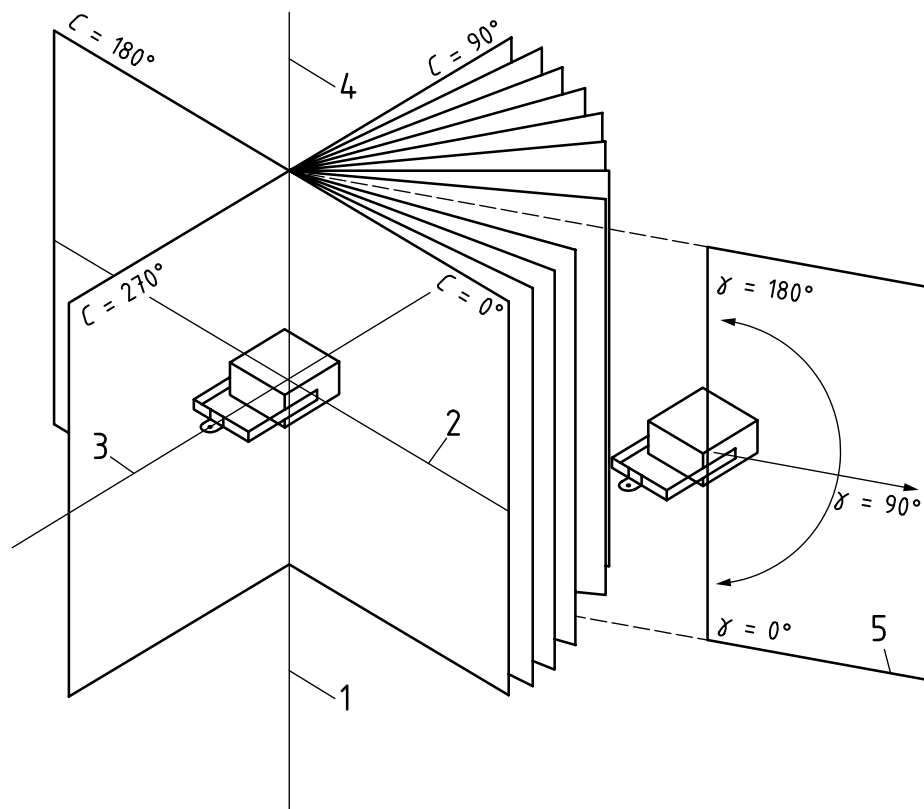
4.3 Further IT-related attributes

Where potential attributes are not specified in [4.2](#), they may be defined separately within a data dictionary. These attributes can be found in ISO 23386:2020:

- **Definitions in language en-EN (PA017):** A description of the attribute in order to define it unambiguously;
- **Method of measurement (PA029):** Evaluation of construction products to ensure their suitability according to requirements in harmonised technical specifications;
- **Name of the defining values (PA034):** In a table of values, this attribute provides the name of the column headers;
- **Data type (PA030):** Format for expressing the value of the property. This can be understood as the storage type from a software perspective. (ISO/IEC 11404:2007, 8.1) Examples: String, Float, Integer;
- **Status (PA002):** Status of the property during its life cycle. Example: Active;
- **Date of creation (PA003):** Date of validation of the property creation request. All dates in accordance with ISO 8601. Format=YYYY-MM-DDThh:mm:ssTZD. Example: 2014-04-30T10:39:53Z;
- **Date of activation (PA004):** Date after when the property can be used;
- **Date of last change (PA005):** Date of validation of the last change request;
- **Date of revision (PA006);**
- **Date of version (PA007);**
- **Date of deactivation (PA008):** Date when property becomes obsolete. The property is maintained in the dictionary;
- **Version number (PA009):** Enables tracking of major changes;
- **Revision number (PA010):** Enables tracking of minor changes. If the version number changes, the revision number starts again at 1. Examples: new translation, changes of typos;
- **List of replaced properties (PA011):** Identifier of the replaced property (or properties). List of GUIDs;
- **List of replacing properties (PA012):** Identifier of the replacing property (or properties). List of GUIDs;
- **Deprecation explanation (PA013):** Reason of deprecation. Deprecated may indicate the property will be removed in the future. This explanation shall be written in international English (EN).

5 Properties for lighting systems

In [Table 1](#) the mechanical properties of a lighting system are described. [Figure 1](#) shows the orientation of a luminaire in the (C, γ) coordinate system according to CIE 121:1996 to clarify the location relationship.



Key

- 1 first axis of luminaire
- 2 second axis of luminaire
- 3 third axis of luminaire
- 4 polar axis of photometer
- 5 C half plane

Figure 1 — Orientation of a luminaire in the (C, γ) coordinate system according to CIE 121:1996; first axis of luminaire (γ) is in the IES LM-63-19, the vertical or the z-axis; second axis of luminaire (C0-C180) is in the IES LM-63-19, the 0° horizontal or the x-axis; third axis of luminaire (C90-C270) is in the IES LM-63-19, the 90° horizontal or the y-axis

Table 1 — Mechanical properties

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
2GZ1YB8nFVhD-HOKgLc\$BU	01-0001	overall diameter	Overall diameter of the housing of the round lighting system.		1E0, mm	n.a.	200
2F38RxmOf3ow-0715Rf500	01-0053	overall radius	Overall radius of the housing of the lighting system. Suitable for circular luminaires or sensing devices or segment geometry. Not suitable for ellipsoid forms.		1E0, mm	n.a.	100
19Z9XKYDT-4p8HR0ZbD\$wO_	01-0002	overall height	Height of the housing of the lighting system. Measured over γ (Vertical). See Figure 1 – first axis of luminaire.		1E0, mm	n.a.	100
1uJgLYpRnFpQ4tSt-HaR2Pf	01-0003	overall length	Length of the housing of the lighting system. Measured in the C90-C270 plane (90° Horizontal.). See Figure 1 – third axis of luminaire.		1E0, mm	n.a.	1 500
1dPvrZN3vEIB0n-0vwYvDcX	01-0004	overall width	Width of the housing of the lighting system. Measured in the C0-C180 plane (0° Horizontal). See Figure 1 – second axis of luminaire.		1E0, mm	n.a.	200
1RPyGAGMf4hRTZ-0DogLFnU	01-0005	mass	Mass of the lighting system. Commonly used as “weight”.		1E-2, kg	n.a.	1,40
2A6xVIUTj9QP-1G\$qb4FiWv	01-0006	cut-out diameter	Diameter of the cut-out hole (for recessed or flush mount).		1E0, mm	n.a.	180
1RIsLtoX1whNaYk-aCoHXJ	01-0007	recessed required depth	Required minimum installation depth, height of the invisible/ hidden mounting part of the luminaire (for recessed or flush mount).		1E0, mm	n.a.	130
2VEYAfd7j4FQt-JgAb_riA5	01-0008	cutting out length	Length of the cut-out hole (for recessed or flush mount).		1E0, mm	n.a.	1 380
2pFFNB0uv1Tf_RTQpYktGL	01-0009	cutting out width	Width of the cut-out hole (for recessed or flush mount).		1E0, mm	n.a.	175

Table 1 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
1zs4Cj96j3d8TWAeeix-Jga	01-0010	luminaire housing shape 3D	Three-dimensional simplified shape of the lighting system.		n.a.	Cylinder, Cuboid, Cube, Cone, Pyramid, Sphere, Half-Sphere, User Defined	Cube
1Zek8UyXfE6gToN8_RDHfG	01-0011	shipping weight	Weight of the shipping package of the lighting system.		1E-2, kg	n.a.	2,40
1i_XY2Awj5RRadN-mgPS3yQ	01-0012	shipping height	Height of the packed lighting system as it is shipped.		1E0, mm	n.a.	150
10UDC\$GOvEHex-mf_I8j9xG	01-0013	shipping length	Length of the packed lighting system as it is shipped.		1E0, mm	n.a.	1 650
1ybyhd8TbACg99Ox-pWMoOg	01-0014	shipping width	Width of the packed lighting system as it is shipped.		1E0, mm	n.a.	260
0yvFhm4xvDggZv-Lzgzhlyq	01-0015	type of packaging	Type of packaging. Available types of packaging to be specified by the manufacturers.		n.a.	Carton, Pallet, Container, Without, Other	Pallet

Table 1 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
16XdmXw8T3H0li-0TOcc8LH	01-0016	impact protection rating IK	Degree of protection provided by enclosures for electrical equipment against external mechanical impacts according to IEC 62262:2002 and IEC 60068-2-75:2014.		n.a.	IK00, IK01, IK02, IK03, IK04, IK05, IK06, IK07, IK08, IK09, IK10	IK 10
1LrBLaYtnCARK-perF_2Ykh	01-0017	glow wire resistance	The glow wire test for fire hazard according to IEC 60695-2:2014 to test electrical products, assemblies, or individual components.		1E0, °C	550 °C, 650 °C, 750 °C, 850 °C, 960 °C	750
1284Zyx8D4uR55X-2cRsWzu	01-0018	needle flame test	Method for testing and assessment of the fire hazard of plastic material using a needle flame according to IEC 60695-11-5:2017. "Yes" for the product has passed the test.		n.a.	Yes No	
1PMNxHS2z4tRu-wiQxyzRfs	01-0019	number of light outputs	Number of surfaces with light output. Equals the number of positions for light distribution curves of the luminaire.		1E0, n.a.	n.a.	1
1mHV_4yHLEFux-OaIDINmNn	01-0020	diameter of the luminous area	Identical with name.		1E0, mm	n.a.	190
0WXZRl6CD2KfL4x-C1uuLBF	01-0021	height of the luminous area	Height measured over z-axis. See Figure 1 – first axis of luminaire.		1E0, mm	n.a.	4
aulwSthrFvRTJgX-NfO9Z	01-0022	length of the luminous area	Length measured aligned with the y-axis, in the C90-C270 plane. See Figure 1 – third axis of luminaire.		1E0, mm	n.a.	1 430

Table 1 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
2SqBhDZKD1hBjG-Wsv4q_GQ	01-0023	width of the luminous area	Width measured aligned with the x-axis, in the C0-C180 plane. See Figure 1 – second axis of luminaire.		1E0, mm	n.a.	192
2gBflnIcFgWR3hT_QVgtQ	01-0024	cable length	Cable for power supply. Zero means no cable supplied.		1E0, mm	n.a.	2 400
1oCak0l6v9Bew_SHOfRFnw	01-0025	Pliable	The luminaire body is flexible.		n.a.	Yes No	
3CckyLFxX8KxZV-vgilS7t	01-0026	ground recessed accessibility class	Specific application class for ground recessed luminaires according to temperature limits, dimensions, and static load resistance in kN according to IEC 60598-2-13.		n.a.	n.a.	In restricted accessible areas
3AgJzo7ND4zB4c3y-sHuewK	01-0054	ground recessed luminaire static load	Static load of ground recessed luminaire according to IEC 60598-2-13.		1E0, kN	n.a.	20
0f2af0EifB1Ql6x-alTs1Xn	01-0029	sealing material	Material of the sealing of a luminaire.		n.a.	n.a.	
0iACWRZ2HAFY7UB-nCGjHq	01-0057	reflector material	Material of the reflector of a luminaire.		n.a.	n.a.	Aluminium
3jAmXEF7Tn9oPIBD_o04BfE	01-0030	silicone-free	States whether the luminaire is silicone-free.		n.a.	Yes No	
2DJLgonKH2zvtUylG-DtoL3	01-0031	halogen-free	States whether the product is halogen-free according to IEC 61249-2-21:2004.		n.a.	Yes No	
3IPpBFdz17PBOW-0suiESss	01-0032	temperature on light aperture	Average temperature of light emitting surface of a luminaire.		1E0, °C	n.a.	
30M\$RN1TX7\$g-z008\$bv0j4	01-0033	operating temperature	Range defined by the minimum and maximum operating temperatures at which the luminaire operates normally as specified by the supplier or manufacturer.		1E0, °C	n.a.	-40 25
0ijRoUrk2nF5QFen-nXXIBTS	01-0034	minimum distance	Describes the minimum required distance of the luminaire housing to other objects.		1E0, mm	n.a.	50

Table 1 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
3GwYrPINbAYu8g-PAOJZgwc	01-0035	maximum orientation angle	Maximum of possible values for the orientation angle (around the z-axis). See Figure 1 – first axis of luminaire.		1E0, °	n.a.	
3qn7sE55H1FuwsBo-zcktbX	01-0036	minimum orientation angle	Minimum possible value for the orientation angle (around the z-axis). See Figure 1 – first axis of luminaire.		1E0, °	n.a.	
26KAJOVBvF8gIMO-ZaAOFTV	01-0037	orientation angle steps	Step width for the orientation angle (around the z-axis). See Figure 1 – first axis of luminaire.		1E0, °	n.a.	
2NmVhTtK4TFFvwDN-SYyqj\$4	01-0038	orientation angle default	Default value for the orientation angle (around the z-axis). See Figure 1 – first axis of luminaire.		1E0, °	n.a.	
0qiz0v1kLAP-BRWAW6wO1PA	01-0039	orientation angle selected value	Selected value for the orientation angle (around the z-axis). See Figure 1 – first axis of luminaire.		1E0, °	n.a.	
05nmPIM-s186u1u1s5MSd23	01-0040	maximum tilt angle	Maximum possible value for the tilt angle (around the x-axis). See Figure 1 – second axis of luminaire.		1E0, °	n.a.	
3ZWzCOV090TukLT-sY8Vcua	01-0041	minimum tilt angle	Minimum possible value for the tilt angle (around the x-axis). See Figure 1 – second axis of luminaire.		1E0, °	n.a.	
0_ofTQZ.jB\$e1o-GoWeQWoV	01-0042	tilt angle steps	Step width for the tilt angle (around the x-axis). See Figure 1 – second axis of luminaire.		1E0, °	n.a.	
0w56LObA94iv-baiikyEXf2	01-0043	tilt angle default	Default value for the tilt angle (around the x-axis). See Figure 1 – second axis of luminaire.		1E0, °	n.a.	
3VHF0w-jl13sv6CBYkwU2wh	01-0044	tilt angle selected value	Selected value for the tilt angle (around the x-axis). See Figure 1 – second axis of luminaire.		1E0, °	n.a.	
3zsZztBEH9sPA-24POLsfWn	01-0045	maximum turn angle	Maximum possible value for the turn angle (around the y-axis). Turn can also be referred to as 'twist' or 'cant'. See Figure 1 – third axis of luminaire.		1E0, °	n.a.	
WWFOEtzHJE2gE-1qlwNt23B	01-0046	minimum turn angle	Minimum possible value for the turn angle (around the y-axis). Turn can also be referred to as 'twist' or 'cant'. See Figure 1 – third axis of luminaire.		1E0, °	n.a.	

Table 1 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
1S1u11ho-b00AsYAUdvnB5e	01-0047	turn angle steps	Step width for the turn angle (around the y-axis). Turn can also be referred to as 'twist' or 'cant'. See Figure 1 – third axis of luminaire.		1E0, °	n.a.	
0Y3iFNjcH3Xh_0Ax-e6FRZy	01-0048	turn angle default	Default value for the turn angle (around the y-axis). Turn can also be referred to as 'twist' or 'cant'. See Figure 1 – third axis of luminaire.		1E0, °	n.a.	
0HKPIHCMX-FO0mtqPiFpiwZ	01-0049	turn angle selected value	Selected value for the turn angle (around the y-axis). Turn can also be referred to as 'twist' or 'cant'. See Figure 1 – third axis of luminaire.		1E0, °	n.a.	
3ejPldyc9Bau-0HaTHZMtva	01-0050	3D model file	The description of a location of the 3D model file.		n.a.	n.a.	C:\ URL
3p1kEeiDL4i8RySiT-GkUyU	01-0051	cable inlet	Cable inlet, type and count, free description		n.a.	n.a.	2xPG13.5
0fa4jPy7f3KhEr-An_5SUg7	01-0052	flush mounting box	Mechanical device to get the luminaire or sensor mounted into concrete.		n.a.	n.a.	
2hXE7M6N9DYec\$I-ZwiY3ia	01-0058	suspension height	Distance from ceiling to mounting point of the suspended lighting system.		1E0, mm	n.a.	500

Table 2 — Electrical properties

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
2FA0ih18LF_uK-t46c5ErIv	02-0001	apparent power	Apparent Power of the product according to IEC 60050.	S	1E0, VA	n.a.	
17a067965Cqh-DelQ\$Y3mcP	02-0002	rated input power	Input power consumed by the light source(s), control gear and control circuit in or associated with a luminaire including any standby power when the luminaire is turned on.		1E0, W	n.a.	
3LBrQkLDDFheB0xrGk8Zr_	02-0003	power factor	Under periodic conditions, ratio of the absolute value of the active power P to the apparent power S. See also IEC 80000-6:2008.	λ	1E0, n.a.	n.a.	0,92
0zjByQSTX24wsx-T125Lzj\$	02-0004	dimming table / curve	Consumption of the power corresponding to the dim level of the luminaire. It is presented as a table of power (W) related to the luminous flux emitted (lm) or the percentage of dimming (%).		1E-2, W 1E0, lm OR 1E0, %	n.a.	
3krkQTVbv0\$g9X-j9eYC6nh	02-0005	compensation type	Identifies the form of compensation used for power factor correction and radio interference suppression.		n.a.	Capacitive, Inductive, Other	
0TzE4sMDv1pwfyg-K1xxjm5	02-0006	standby power / networked standby power	Power consumption of luminaire in off mode, or in non-active mode. All electrical components including emergency and lighting controls components have to be considered. See also ISO/CIE 20086:2019 and IEC 63013:2017+A1:2021.		1E-2, W	n.a.	0,35
2wiaN2gSf0\$RFeAF-8d_51K	02-0007	power consumption of the controls	Power consumption of the detector with the light switched off and without motion detection/presence detection (idle state).		1E-2, W	n.a.	0,20
0G4TAennPD5gzRo-62rIZv_	02-0008	ILCOS light source type	Light Source type definition according ILCOS, IEC 61231:2010.		n.a.	n.a.	IAA/ C-40-220/ 230-E27-60

Table 2 (continued)

GUID	ID	Name	Description	Symbol	Format, Unit	Value set	Examples
1fBdd6YP208_JfT-CLHktp	02-0009	lamp holder	A device which mechanically supports and provides electrical connections for a compatible electric light source. See also IEC 60061:2018.		n.a.	n.a.	E27
1MkMercePCOufl-c60yDPFq	02-0071	luminaire socket	Connector and mechanical holder for accessories, LED, control or other modules		n.a.	n.a.	GH76p-2, zhaga book18, zhaga book20, NEMA
1nVrfHKzD-0TOacgThVW99r	02-0076	luminaire socket interface	Electrical interface on contact of socket.		n.a.	n.a.	D4i, DALI, 0-10V, 1-10V, PWM
1nKr7A75b8reM-NAfPW1iw1	02-0010	nominal light source output power	Approximate power output used to designate or identify the light source.		1E0, W	n.a.	60, 49, 80
1A3s\$Z4Sj7lQffzb-fen7Yu	02-0011	multilamp light source wattage	Luminaires that could be equipped with more than one light source wattage. Selection of all possible nominal light source output wattage.		1E0, W	n.a.	35, 49, 80
018C_3ZRn5luf-wY89oB9NV	02-0012	light source included	States whether the luminaire is supplied with light source.		n.a.	Yes No	Yes
2LJHyobk57buK-gQhTXfFR_	02-0013	maximum nominal output power of light source	<i>Identical with name.</i>		1E0, W	n.a.	20
1RGMcZL0X4SvX-P9H1tpT7e	02-0014	default light source power	Recommended light source power by supplier or manufacturer.		1E0, W	n.a.	18
1FLEjwitTB-ANPTqofV2TI	02-0015	light source position of usage	Light Source usage position (Horizontal/Vertical) possibly with range of angle.		n.a.	Horizontal, Vertical	Horizontal
U000chRyr2eQDX-bAbAwecx5	02-0016	light source count	Number of electric lamps (electric light source provided with at least one cap) in one luminaire.		1E0, n.a.	n.a.	2