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**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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## 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](http://www.iso.org/directives)).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see [www.iso.org/patents](http://www.iso.org/patents)).

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

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](http://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](http://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.

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# 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.

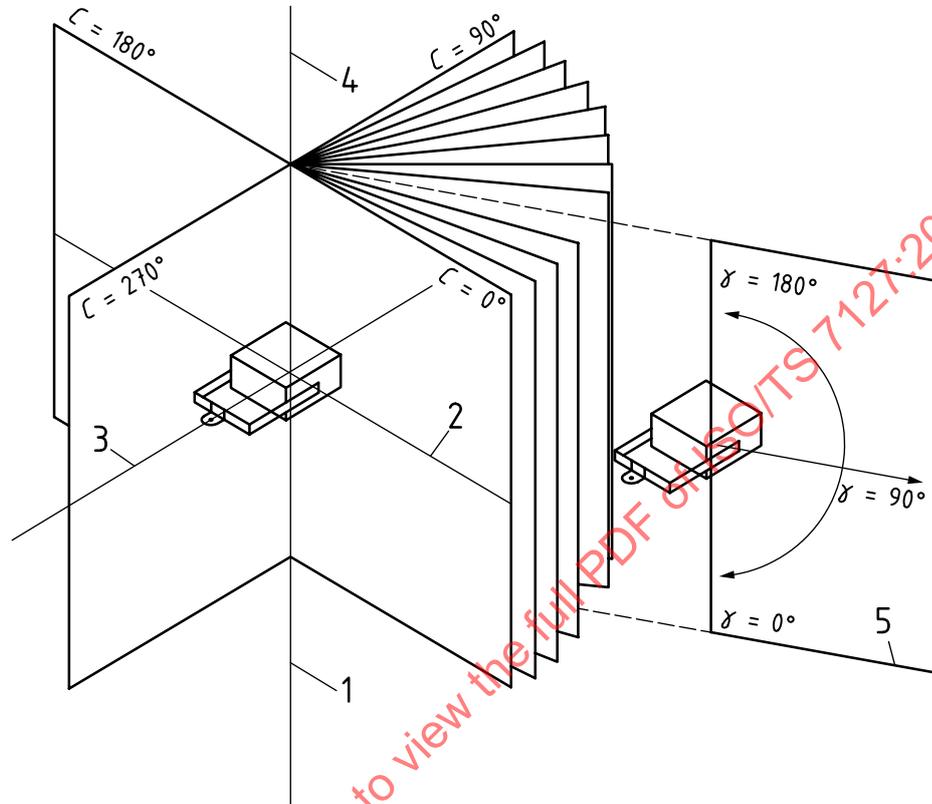
### 4.3 Further IT-related attributes

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  $(C, \gamma)$  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  $(C, \gamma)$  coordinate system according to CIE 121:1996; first axis of luminaire ( $\gamma$ ) 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 |
|--------------------------|---------|-------------------------|--|--------|--------------|-----------|----------|
| 2GZ1YB8enFVhd-HOKgLC\$BU | 01-0001 | overall diameter        | Overall diameter of the housing of the round lighting system.  |        | 1E0, mm      | n.a.      | 200      |
| 2F38RxmOf3ow-0715 Rf500  | 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 $\gamma$ (Vertical). See <a href="#">Figure 1</a> – first axis of luminaire.                         |        | 1E0, mm      | n.a.      | 100      |
| 1ujlYpRnFpQ4tSt-HaR2Pf   | 01-0003 | overall length          | Length of the housing of the lighting system. Measured in the C90-C270 plane (90° Horizontal). See <a href="#">Figure 1</a> – third axis of luminaire.           |        | 1E0, mm      | n.a.      | 1 500    |
| 1dPvrZN3vEIB0n-0vvYvDcX  | 01-0004 | overall width           | Width of the housing of the lighting system. Measured in the C0-C180 plane (0° Horizontal). See <a href="#">Figure 1</a> – 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,<br>Cuboid,<br>Cube,<br>Cone,<br>Pyramid,<br>Sphere,<br>Half-Sphere,<br>User Defined | Cube     |
| 1Zek8UyXfE6gToN8_RDFg    | 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_l8j9xG | 01-0013 | shipping length            | Length of the packed lighting system as it is shipped.                                |        | 1E0, mm      | n.a.  | 1 650    |
| 1ybyhd8TbACg990x-pWMoOg  | 01-0014 | shipping width             | Width of the packed lighting system as it is shipped.                                 |        | 1E0, mm      | n.a.  | 260      |
| 0yvFhm4xvDggZv-Lzgzhiyq  | 01-0015 | type of packaging          | Type of packaging. Available types of packaging to be specified by the manufacturers. |        | n.a.         | Carton,<br>Pallet,<br>Container,<br>Without,<br>Other   | Pallet   |

Table 1 (continued)

| GUID                    | ID      | Name                          | Description  | Symbol | Format, Unit | Value set  | Examples |
|-------------------------|---------|-------------------------------|--|--------|--------------|--|----------|
| 16XdmXw8T3HOli-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,<br>IK01,<br>IK02,<br>IK03,<br>IK04,<br>IK05,<br>IK06,<br>IK07,<br>IK08,<br>IK09,<br>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,<br>650 °C,<br>750 °C,<br>850 °C,<br>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<br>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 | <i>Identical with name.</i>  |        | 1E0, mm      | n.a.   | 190      |
| 0WXZRl6CD2KfL4xC1uuLBF  | 01-0021 | height of the luminous area   | Height measured over z-axis. See <a href="#">Figure 1</a> – first axis of luminaire.   |        | 1E0, mm      | n.a.   | 4        |
| 1aulwSthrFvRTJgX-6NfO9Z | 01-0022 | length of the luminous area   | Length measured aligned with the y-axis, in the C90-C270 plane. See <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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<br>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-aITs1Xn    | 01-0029 | sealing material                      | Material of the sealing of a luminaire.  |        | n.a.         | n.a.      |                                |
| 0iACWRZZHAFY7UB-nCGjHq     | 01-0057 | reflector material                    | Material of the reflector of a luminaire.  |        | n.a.         | n.a.      | Aluminium                      |
| 3jAmXEFTh9oPIBD_o04BfE     | 01-0030 | silicone-free                         | States whether the luminaire is silicone-free.   |        | n.a.         | Yes<br>No |                                |
| 2DJLgonKH2zvtUy/G-DtoL3    | 01-0031 | halogen-free                          | States whether the product is halogen-free according to IEC 61249-2-21:2004.   |        | n.a.         | Yes<br>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<br>25                      |
| 0jRoUrk2nF5QFen-mXXIBTS    | 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – first axis of luminaire.   |        | 1E0, °       | n.a.      |          |
| 2NmVhTt4TffvwDN-SYyqj\$4  | 01-0038 | orientation angle default        | Default value for the orientation angle (around the z-axis). See <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – second axis of luminaire.   |        | 1E0, °       | n.a.      |          |
| 0_offtQZ_jB\$e1o-GoWeQWoV | 01-0042 | tilt angle steps                 | Step width for the tilt angle (around the x-axis). See <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – third axis of luminaire. |        | 1E0, °       | n.a.      |          |
| 3WFOEtzHJE2gE-wlqwNt23B   | 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – third axis of luminaire.     |        | 1E0, °       | n.a.      |            |
| 0Y3iFNjcH3Xh_0Axe6FRZy   | 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 <a href="#">Figure 1</a> – 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 <a href="#">Figure 1</a> – 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:\<br>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-t46e5ErIv  | 02-0001 | apparent power                          | Apparent Power of the product according to IEC 60050.  | S         | 1E0, VA                         | n.a.                               |                                 |
| 17a067965Cqh-DeIQ\$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.   | $\lambda$ | 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<br>1E0, lm OR<br>1E0, % | n.a.                               |                                 |
| 3krkQTVbv0\$g9X-9eYc6nh  | 02-0005 | compensation type                       | Identifies the form of compensation used for power factor correction and radio interference suppression.   |           | n.a.                            | Capacitive,<br>Inductive,<br>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-G2rIzv_  | 02-0008 | ILCOS light source type                 | Light Source type definition according ILCOS, IEC 61231:2010.  |           | n.a.                            | n.a.                               | IAA/<br>C-40-220/<br>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                                       |
| 1MkMercePC0ufl-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<br>No               | Yes                                       |
| 2LJHyobk57buK-gQhTXFR_   | 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  |
| 1ELEjwitTB-hANPTqofV2TI  | 02-0015 | light source position of usage               | Light Source usage position (Horizontal/Vertical) possibly with range of angle.   |        | n.a.         | Horizontal,<br>Vertical | Horizontal                                |
| 2U00chRyr2eQDX-abAwecx5  | 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   |

Table 2 (continued)

| GUID                     | ID      | Name                              | Description   | Symbol | Format, Unit | Value set | Examples  |
|--------------------------|---------|-----------------------------------|---|--------|--------------|-----------|---|
| 0FWc9hC5PEqgfN-0fVzc2Yo  | 02-0017 | zhaga standard                    | Is the luminaire compliant with Zhaga, and if so state which Zhaga Books apply. See also PD IEC/PAS 63166.                  |        | n.a.         | n.a.      |   |
| 21GF1rRP4denY-C8o6ot\$N  | 02-0018 | control gear                      | Type of control gear, which is required to control the electrical operation of the light source(s).                         |        | n.a.         | n.a.      | electromagnetic, electronic, electronic for LEDs, constant wattage, multi-channel |
| 06Vbbmtwv85QA-rFTsBPUPQ  | 02-0019 | control gear required             | States if control gear is necessary.  |        | n.a.         | Yes<br>No |   |
| 3kZ3Cj9Xb9DBPoZ-15k3viQ  | 02-0020 | control gear included             | Shipped with or without control gear/drivers.   |        | n.a.         | Yes<br>No | Yes   |
| 2mG57VdXfBo8r-V80FHUw7b  | 02-0021 | control gear quantity             | The quantity of control gears.  |        | 1E0, n.a.    | n.a.      | 1   |
| 3M6mU\$FIP-6KQ80BVaK5PCO | 02-0022 | control gear location             | Describes the location of the control gear: inside or outside of the luminaire or provide the distance to the light source. |        | n.a.         | n.a.      |   |
| 3d9jfb_z7WB2y0x-bHeccR   | 02-0023 | energy efficiency of control gear | IEC 62442-1:2018 defines the measurement methods for the total input power of the lighting system.                          |        | 1E-2         |           | 0,86  |
| 2oaQ3A0nn40w-mt6Zfp6ooy  | 02-0024 | rated current                     | Electrical rated current according to IEC 60669-1.  | I      | 1E0, A       | n.a.      |   |
| 3rfirTj9bgIELSX-4VRBz    | 02-0025 | inrush current                    | Initial current after turning on. Base for quantity of luminaires per fuse or similar.                                      |        | 1E-2, A      | n.a.      |   |
| 2ENV\$TQoL31gD-SHIZyR4N  | 02-0026 | inrush current time               | Inrush current time after turning on.   |        | 1E0, µs      | n.a.      |   |

Table 2 (continued)

| GUID                           | ID      | Name                    | Description  | Symbol | Format, Unit | Value set   | Examples |
|--------------------------------|---------|-------------------------|--|--------|--------------|---|----------|
| 22IpUkOwD2i-<br>01Vugd8CAfb    | 02-0027 | rated frequency         | Rated frequency at which the product operates normally as specified by the supplier or manufacturer. See IEC 61293:2019.   |        | 1E0, Hz      | 50,<br>60,<br>0<br><i>multiple option selection</i> |          |
| 3ERn8VgnjDjhulH-<br>3MaG9yG    | 02-0028 | supply voltage          | The phase-to-phase or phase-to-neutral voltage at the supply terminals at which the product operates normally as specified by the supplier or manufacturer. See IEC 60038. |        | 1E0, V       | n.a.  | 230      |
| 3\$\$ylxYFj1E9zX-<br>dzpVatCgt | 02-0066 | rated voltage           | The voltage or range of voltages indicated on the luminaire according to IEC 60598-1:2020.   |        | 1E0, V       | n.a.  |          |
| 3bHsk\$G7n-<br>05BgiaYUYUg6s   | 02-0067 | 2nd rated voltage       | Rated output voltage on the secondary side (in the case of lighting using a voltage converter) according to IEC 61347 series.  |        | 1E0, V       | n.a.  |          |
| 3RRksINcn3IBF-<br>myVoAyyMc    | 02-0029 | voltage type            | AC Alternating Current/DC Direct Current/UC Universal Current (Alternating or Direct Current).   |        | n.a.         | AC,<br>DC,<br>UC                                    |          |
| 0las3th8D2c-<br>g4EvP\$KqQcv   | 02-0030 | electrical safety class | Indicates whether the electrical device has a protective earth connection or not. See IEC 61140:2015.  |        | n.a.         | 0,<br>I,<br>II,<br>III                              | I        |

Table 2 (continued)

| GUID                    | ID      | Name    | Description  | Symbol | Format, Unit | Value set   | Examples |
|-------------------------|---------|---------|--|--------|--------------|---|----------|
| 1K_1K1q6n7K-gOFJw5Cuc_i | 02-0031 | IP code | A coding system to indicate the degrees of protection provided by an enclosure against access to hazardous parts, ingress of solid foreign objects, ingress of water and to give additional information in connection with such protection. See also IEC 60529:2014. |        | n.a.         | IP20,<br>IP21,<br>IP22,<br>IP23,<br>IP24,<br>IP25,<br>IP26,<br>IP27,<br>IP28,<br>IP30,<br>IP31,<br>IP32,<br>IP33,<br>IP34,<br>IP35,<br>IP36,<br>IP37,<br>IP38,<br>IP40,<br>IP41,<br>IP42,<br>IP43,<br>IP44,<br>IP45,<br>IP46,<br>IP47,<br>IP48, | 20       |

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Table 2 (continued)

| GUID                        | ID      | Name                         | Description   | Symbol | Format, Unit | Value set  | Examples |
|-----------------------------|---------|------------------------------|---|--------|--------------|--|----------|
| 2sRMMFiv-<br>vEvwH0LKqBmNoy | 02-0032 | impulse withstand<br>voltage | Highest peak value of impulse voltage of prescribed form and polarity which does not cause breakdown of insulation under specified conditions. See IEC 60664-1. |        | 1E0, kV      | IP50,<br>IP51,<br>IP52,<br>IP53,<br>IP54,<br>IP55,<br>IP56,<br>IP57,<br>IP58,<br>IP60,<br>IP61,<br>IP62,<br>IP63,<br>IP64,<br>IP65,<br>IP66,<br>IP67,<br>IP68,<br>IP69,<br>IP69K<br>n.a. |          |
| 2Afk3AuoX0YfhIG-<br>9pMfb5q | 02-0033 | colour controllable          | States if the colour is controllable.   |        | n.a.         | Yes<br>No  | No       |

Table 2 (continued)

| GUID                    | ID      | Name                            | Description   | Symbol | Format, Unit  | Value set  | Examples  |
|-------------------------|---------|---------------------------------|---|--------|---------------|--|---|
| 2kMc1GwgH1LAn-Z1huo7mq_ | 02-0034 | colour temperature controllable | States if the colour temperature is controllable.   |        | n.a.          | Yes<br>No  | Yes   |
| 00aw6unKX0ghwx-ryKRoQm9 | 02-0035 | control features                | Description of control elements and features.   |        | n.a.          | n.a.   | Touchdim, dynamic light, light management system                            |
| 1rdcbmVG19Ug-Bf_YVdUo9f | 02-0036 | Dimmable                        | Determines if the luminaire is dimmable.  |        | n.a.          | Yes<br>No  | Yes   |
| 3YVv_4s1LA0u-iEUpMsRej9 | 02-0037 | with dimmer                     | Determines whether the luminaire has a dimmer included.   |        | n.a.          | Yes<br>No  | No  |
| 0jGPV_emX0auTlyN-Qx4grP | 02-0038 | dimming method                  | Determines which dimmer type is applicable for the luminaire.   |        | n.a.          | PWM,<br>CCR,<br>leading edge phase cut,<br>trailing edge phase cut,<br>other | Trailing edge   |
| 0DIY8lmBT8gxj-C104yS42z | 02-0068 | dimming control method          | Determines which dimming control type is applicable for the luminaire.                                |        | n.a.          | n.a.   | Group, Step, Sequential   |
| 2SM664IlzBFOlcuH-C24iWz | 02-0039 | dimming range                   | Determines which range of dimming is possible for luminaire.  |        | 1E0 to 1E0, % | n.a.   | 1 to 100  |
| 3_eFt0HBf3Ugmfs-ROvHbly | 02-0040 | interface                       | Determines which communication or control interface is indicated for the luminaire or sensing device. |        | n.a.          | n.a.   | KNX, LON, DALI broadcast, DALI addressable, 0-10V, ArtNet, BacNet, DMX, PWM |

Table 2 (continued)

| GUID                    | ID      | Name                        | Description  | Symbol | Format, Unit                  | Value set   | Examples  |
|-------------------------|---------|-----------------------------|--|--------|-------------------------------|---|---|
| 2a382qr4fB08W-b9xoufkaq | 02-0041 | quantity of addresses       | Determines the quantity of addresses of the product.   |        | 1E0, n.a.                     | n.a.  | 4 DALI Addresses for Power Consumption,<br>2 DALI Addresses for Integrative Lighting,<br>20 DMX Channels needed for functions |
| 24ckSPpCb8Fx0fU-WeZlnfW | 02-0042 | DALI DT support             | Determines the DALI Device Types the luminaire is supporting.  |        | n.a.                          | n.a.  | DT1, DT5, DT6, DT7, DT8   |
| 0qBCPAI5j85ewts-RgzQ4Fw | 02-0043 | integral circuit protection | Determines whether the product involves an integrated circuit protection if not the zero should be stated. |        | 1E-1, A                       | n.a.  | fuse  |
| 1W6c2bUHL1jxn4_Jc4lGgo  | 02-0044 | supply circuit conductor    | Specifies the connection for a supply circuit.   |        | n.a.                          | Cable,<br>Plug-connector,<br>Screw-connector,<br>Connector with strain relief | Cable   |
| 05F825n2fBxfST-7DzrOuLm | 02-0045 | clamping range              | The range of clamping.   |        | 1E-2 to 1E-2, mm <sup>2</sup> | n.a.  | 0,75 to 1,50  |
| 11SZgYx5H3RvmoG-z9uTtTf | 02-0046 | cable cross-section         | Value of acceptable minimum and maximum cable cross-section.   |        | 1E0, mm <sup>2</sup>          |   |   |
| 100MSXxt96iB-H86YJ6lECo | 02-0047 | number of phases            | Specifies the number of phase that a luminaire can be connected to.  |        | 1E0, n.a.                     | 1,<br>2,<br>3   | 3   |
| 1UrfPrHg-j2whM6TeYn83l  | 02-0048 | supply phase                | Determines the number of supply phase used for the device electrical input.                                |        | n.a.                          | L1,<br>L2,<br>L3  | L1  |

Table 2 (continued)

| GUID                      | ID      | Name                                | Description   | Symbol | Format, Unit | Value set | Examples    |
|---------------------------|---------|-------------------------------------|---|--------|--------------|-----------|-------------|
| 2nKXmIuvb7_8cl-WogllEcr   | 02-0049 | through wiring                      | Determines whether the luminaire is suitable for through wiring with the indication of the maximum current.   |        | 1E0, A       | n.a.      | 16          |
| 1Uuzk8eSnF-9h\$NyNPIiShg  | 02-0050 | with connecting cable               | Determines whether the product involves connecting cable.   |        | n.a.         | Yes<br>No | Yes         |
| 0jKxNcCffAl-uI5K\$HEBkKak | 02-0072 | length of cable                     | Length of the connecting cable.   |        | 1E-2, m      | n.a.      | 1,20        |
| 1oLuIWYPjClvI7d-qwEXdaN   | 02-0051 | with power plug                     | Determines whether the luminaire includes a power plug.   |        | n.a.         | Yes<br>No | No          |
| 0opNtWZG-zAAhb0SXXtC4px   | 02-0073 | power plug type                     | Type of the included power plug   |        | n.a.         | n.a.      | CEE 7/4     |
| 2RVwJxv\$TCN-B03cljqpK26  | 02-0052 | with switch                         | Determines whether the luminaire has a switch included.   |        | n.a.         | Yes<br>No | Yes         |
| 1h35yf0g10veX-dUQaAudI2   | 02-0053 | with sensing device                 | Determines whether the luminaire contains an integrated sensing device.                                       |        | n.a.         | Yes<br>No | No          |
| 3kbFNwkkb7gPUS-nc_COBg4   | 02-0054 | constant light output               | Determines whether the luminous flux stays constant over the declared lifetime.                               |        | n.a.         | Yes<br>No | Yes         |
| 2d9pUf\$QXEtXHYd-BYou0\$3 | 02-0055 | constant light output start power   | <i>Identical with name.</i>   |        | 1E-2, W      | n.a.      | 56          |
| 3UEOcatIDEMf\$qd-vydAlfg  | 02-0056 | constant light output end power     | <i>Identical with name.</i>   |        | 1E-2, W      | n.a.      | 60          |
| 3B8KQ1WqfC8x-5qTA1pA7PY   | 02-0064 | constant light output average power | <i>Identical with name.</i>   |        | 1E-2, W      | n.a.      | 58          |
| 1qhhuqyT4\$xT\$g-ToocAE3  | 02-0057 | radiation pattern file              | File reference to pattern file which contains the radiation distribution similar to a Eulmdat file for light. |        | n.a.         | n.a.      | C:\,<br>URL |
| 30Ko89Zdb53uyKz-RXpupJT   | 02-0058 | radio transmitting power            | Power of the wireless module expressed in decibel ratio of a power value.                                     |        | 1E0, dBm     | n.a.      | +4          |
| 3ETH0SOQH5DeS-9U\$Wj1Aa8  | 02-0059 | radiation transmitting frequency    | The frequency of radiation for wireless transmission.   |        | 1E-2, GHz    | n.a.      | 2,40        |

Table 2 (continued)

| GUID                     | ID      | Name                                       | Description   | Symbol | Format, Unit | Value set   | Examples                         |
|--------------------------|---------|--|---|--------|--------------|---|----------------------------------|
| 0WjAaRYTX8e0Zc-C3iDTL8b  | 02-0060 | radiation transmitting standard            | Determines whether the luminaire is in accordance with a wireless connection standard.  |        | n.a.         | n.a.  | IEEE 802.15.1                    |
| 12_LtdVG5D-qvZ\$R5Y3Ua8I | 02-0061 | LED module replaceable                     | <i>Identical with name.</i>   |        | n.a.         | User with tool,<br>User without tool,<br>Professional,<br>Manufacturer,<br>none | Professional                     |
| 1hwc11pl-v2A90eCTHqW7ZB  | 02-0062 | total harmonic distortion THD              | Ratio of the effective value of the sum of all harmonic components to the effective value of the fundamental according to IEC 61000-3-2:2010. |        | 1E0, %       |   | 4                                |
| 0Rapt45z3S8Ef-ZIGBNO61   | 02-0063 | control gear replaceable                   | Control gear replaceable, according to IEC 60598-1:2020.  |        | n.a.         | User with tool,<br>User without tool,<br>Professional,<br>Manufacturer,<br>none | none                             |
| 3yprn4XcD-1CP0A67A\$WxFb | 02-0065 | surge protection                           | <i>Identical with name.</i>   |        | n.a.         | Yes<br>No   | Yes                              |
| 0o1m4BwLAQ0tx-a8Gd4wib   | 02-0069 | surge protection<br>CM – Common mode       | Protection against lightning and overvoltages. Surges between live conductors and earth. Reference IEC 61547, IEC 61000-4-5                   |        | 1E0, kV      | 2<br>...<br>10  | 10                               |
| 1y\$NA36xr8ox_l0U-BobviH | 02-0070 | surge protection<br>DM – Differential mode | Protection against lightning and overvoltages. Surges between live conductors. IEC 61547, IEC 61000-4-5                                       |        | 1E0, kV      | 1<br>10   | 10                               |
| 0kRq_cvcL1fvAzPU-jxL4lT  | 02-0072 | wireless connection protocol               | The connection protocol supported to connected sensors, controllers, luminaires in smart light system.  |        | n.a.         |   | ZigBee, Bluetooth, Wi-Fi, NB-IoT |

Table 2 (continued)

| GUID                     | ID      | Name                       | Description   | Symbol | Format, Unit | Value set         | Examples                      |
|--------------------------|---------|----------------------------|---|--------|--------------|-------------------|-------------------------------|
| 3BhzIrD9nBcuAazT-kJEU36  | 02-0073 | connection type            | Smart light nodes (sensor, controller, or luminaires etc.) are connected by wire or wireless.   |        | n.a.         | wired<br>wireless | wireless                      |
| 0GyCmQC\$X3U8g-wlgUqh_z1 | 02-0074 | control gear output range  | Electrical output boundary defined by the minimum and maximum output currents $I_{min}$ and $I_{max}$ , the minimum and maximum output voltages $U_{min}$ and $U_{max}$ , and the minimum and maximum output powers $P_{min}$ and $P_{max}$ . |        | n.a.         |                   |                               |
| 0ybd7qvXn6Sh-HLt89\$HeGL | 02-0075 | control gear configuration | The options to connect to the control gear to configure the parameters of the control gear.   |        | n.a.         |                   | USB cable, NFC, Bluetooth, RF |

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Table 3 — Emergency lighting properties

| GUID                       | ID      | Name                                 | Description   | Symbol | Format, Unit | Value set   | Examples   |
|----------------------------|---------|--------------------------------------|---|--------|--------------|---|--|
| 0nXXpyMbD4Qg-zHiMoFE\$Kf   | 03-0001 | suitable for emergency lighting      | Determines whether emergency lighting is possible.  |        | n.a.         | Yes<br>No   |  |
| 3pJBuEixPAV9f0wT-nlZcOM    | 03-0002 | emergency unit integrated            | Indicates if emergency lighting is integrated. Combined luminaire for standard and emergency lighting with one or multiple light distribution curves. |        | n.a.         | Yes<br>No   |  |
| 3Q6UsxAKD-0Q8m00x0ZsmhD    | 03-0003 | dedicated emergency lighting type    | Product type for an application of the emergency lighting. Dedicated to emergency luminaires only.  |        | n.a.         |   | path lighting, evacuation lighting, guidance lighting, safety lighting, exit sign lighting, dynamic exit sign lighting |
| 3\$hGY-wTMb2sQ53dzP\$G-jc9 | 03-0004 | emergency lighting light source type | Light source type of an additional separate emergency light source within the luminaire.  |        | n.a.         | n.a.  | LED  |
| 2Yq5DQRXP7efr3c-Qyq8sqS    | 03-0005 | backup supply system                 | The type of backup supply system according to IEC 60598-2-22:2015.  |        | n.a.         | single battery, central battery, generator                |  |
| 2qgqLIM2b91w-jREM3dUep2    | 03-0006 | testing method                       | Testing method of emergency lighting. According to IEC 62034:2012.  |        | n.a.         | Manual Test, Self-Test, Central Test, S, P, ER, PER, PERC |  |

Table 3 (continued)

| GUID                    | ID      | Name                                   | Description   | Symbol | Format, Unit | Value set                             | Examples |
|-------------------------|---------|--|---|--------|--------------|---------------------------------------|----------|
| 2XGbfN7gP1ugSmA-fQ0jIzn | 03-0007 | emergency operation type               | Emergency operation type according to IEC 60598-2-22:2015, Annex B, b)  |        | 1E0, n.a.    | 0,<br>1,<br>2,<br>3,<br>4,<br>5,<br>6 |          |
| 2UfXwD2hLDx-eeUzqPOjWhh | 03-0008 | emergency facilities                   | Emergency facilities code according to IEC 60598-2-22:2015, Annex B c)  |        | n.a.         | A,<br>B,<br>C,<br>D,<br>E,<br>F,<br>G |          |
| 1QFaMGG19Dh-wzoLgqvywvv | 03-0009 | emergency nominal voltage              | Nominal voltage in emergency operation.   |        | 1E-2, V      | n.a.                                  |          |
| 0Wy67y94v1fgh-SU3mbcgU  | 03-0010 | emergency lighting rated input power   | Rated Input power consumed by the emergency lighting.   |        | 1E-2, W      | n.a.                                  |          |
| 3LN_2aQQD049K9w-6fm2THi | 03-0011 | current DC-operation                   | Identical with name.  |        | 1E0, mA      | n.a.                                  |          |
| 2sk0IXxZ93A-9vfVQArmqx0 | 03-0012 | emergency lighting inrush current      | Initial current of emergency lighting after turning on (rated value). Needed for the correct sizing of AC/AC central systems. |        | 1E-2, A      | n.a.                                  |          |
| 1i4AYS799CBxV-0ZiYKoY1M | 03-0013 | emergency lighting inrush current time | Inrush current time of emergency lighting after turning on. Needed for the correct sizing of AC/AC central systems.           |        | 1E0, µs      | n.a.                                  |          |

Table 3 (continued)

| GUID                     | ID      | Name  | Description  | Symbol | Format, Unit       | Value set | Examples                |
|--------------------------|---------|---|--|--------|--------------------|-----------|-------------------------|
| 3SPWY2QXj1Tve2T-7PA9Uw4  | 03-0014 | duration time and luminous flux of emergency lighting | Presentation of the variation of the emergency lighting output during the usage time. It is presented as a table of luminous flux emitted (lm) and corresponding duration times (h). |        | 1E0, lm,<br>1E0, h | n.a.      |                         |
| 38wYgCHqr1A8v-capxWfUmV  | 03-0027 | maximum luminous flux of Emergency lighting           | The maximum luminous flux from an emergency luminaire.   |        | 1E0, lm            | n.a.      |                         |
| 36Xu4jb_T9vQ3ZUe-Kan53F  | 03-0015 | emergency LDC   | Emergency Lighting Light Distribution Curve as file.   |        | n.a.               | n.a.      | C:\,<br>URL             |
| 2WGVMrEo99aP-K\$EDJPaPtF | 03-0016 | emergency lighting charging power                     | Input power to the charging circuit of emergency luminaires when the light sources are not operating.  |        | 1E-2, W            | n.a.      |                         |
| 0RTU7Kmn15Ax1t-SLCuIggS  | 03-0017 | emergency lighting initial charge time                | Duration (in h) in which the emergency lighting batteries are being recharged for the first usage after the installation.  |        | 1E-2, h            | n.a.      |                         |
| 0nMEIVYcFAX-8eq7QEwZK1f  | 03-0018 | emergency lighting recharge time                      | Duration (in h) in which the emergency lighting batteries are being re-charged.  |        | 1E-2, h            | n.a.      |                         |
| 29ZiimATr4Q00B-4wwiQNa8  | 03-0019 | battery type  | Battery type, Cell type. See IEC 60086-1.  |        | n.a.               | n.a.      | R14                     |
| 3HSRRigDn3bwrPt-tqPraMV  | 03-0020 | battery capacity                                      | <i>Identical with name.</i>  |        | 1E-1, Ah           | n.a.      |                         |
| 1hLQSaFhL7L0oW-Cue_qAOm  | 03-0021 | battery voltage                                       | <i>Identical with name.</i>  |        | 1E-1, V            | n.a.      |                         |
| 3a5GdiFj1Czvy-jCholq9lh  | 03-0022 | battery form factor                                   | Battery form factor and dimension.   |        | n.a.               | n.a.      | Stick 240 mm ø<br>33 mm |
| 209HjwozH45uVF-7D5vCuN2  | 03-0028 | battery ambient temperature range for charging        | <i>Identical with name.</i>  |        | 1E0, °C to 1E0, °C | n.a.      | -20 to 45               |
| 3lvvcB\$9vFevHjP-W5YB1Ph | 03-0029 | battery ambient temperature range for discharging     | Ambient temperature range for discharging of battery in case the light is switched on.   |        | 1E0, °C to 1E0, °C | n.a.      | -20 to 45               |

Table 3 (continued)

| GUID                         | ID      | Name                                    | Description   | Symbol | Format, Unit | Value set | Examples  |
|------------------------------|---------|---|---|--------|--------------|-----------|---|
| 20JyDptDT0\$V_<br>SOhLc5RgE  | 03-0030 | battery charging and discharging cycles | <i>Identical with name.</i>   |        | 1E0, n.a.    | n.a.      | 6 000   |
| 200Trg0X9FquhZp-<br>9ZMM4ud  | 03-0024 | pictogram escape direction              | The direction of escape pictogram. Does not include the description of the pictogram. |        | n.a.         | n.a.      | Righarrow, Leftarrow, Downarrow, Uparrow, Other, Not known, Unset     |
| 3s3aB5A0r6Swmx-<br>1Bfi6E\$Z | 03-0025 | addressability                          | The type of addressability of the emergency lighting controller.                      |        | n.a.         | n.a.      | Implemented, Upgradeable to, Not implemented, Other, Not known, Unset |
| 3dyQmC\$KHDfvD_<br>wfGSgfi   | 03-0026 | viewing distance                        | Viewing distance of pictogram according to ISO 30061:2007.                            |        | 1E-2, m      | n.a.      |   |

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Table 4 — Photometric properties

| GUID                    | ID      | Name                                    | Description  | Symbol | Format, Unit | Value set             | Examples   |
|-------------------------|---------|---|--|--------|--------------|-----------------------|--|
| 1Epo0LO16F-PpSj0jFwIOu  | 04-0001 | luminous intensity distribution         | Luminous intensity distribution curve as file. A luminaire can emit more than one luminous intensity distribution curves.  |        | n.a.         | n.a.                  | C:\ URL,<br>Eulmdat, ANSI/IES<br>LM-63, ANSI/IES<br>TM-33, UNI 11733 |
| 26Cck1Shb27v-8JU1a1vgKV | 04-0043 | Photometry                              | Photometry is absolute or relative.  |        | n.a.         | absolute,<br>relative |  |
| 0FYKiM4IT-7dAD13KWzXvsG | 04-0002 | photometric centre position x direction | x position of the point used as origin for photometric measurements and calculations in relation to the middle of the bounding box. Positive values are aligned with the C0 plane. Negative values are aligned with the C180 plane. Reference: CIE 121:1996.   |        | 1E0, mm      | n.a.                  |  |
| 3HorBzYr10DBaLrb-gxq2fs | 04-0003 | photometric centre position y direction | y position of the point used as origin for photometric measurements and calculations in relation to the middle of the bounding box. Positive values are aligned with the C90 plane. Negative values are aligned with the C270 level. Reference: CIE 121:1996.  |        | 1E0, mm      | n.a.                  |  |
| 2MDJxTVzv57ALN-nXX1bC1W | 04-0004 | photometric centre position z direction | z position of the point used as origin for photometric measurements and calculations in relation to the middle of the bounding box. Positive values are aligned with the gamma angle 180° (up). Negative values are aligned with the gamma angle 0° (down).<br>If the light centre point is under the middle, at the bottom side, then this value is the negative half of the height. Reference: CIE 121:1996. |        | 1E0, mm      | n.a.                  |  |

Table 4 (continued)

| GUID                    | ID      | Name                                    | Description   | Symbol | Format, Unit | Value set  | Examples        |
|-------------------------|---------|---|---|--------|--------------|--|-----------------|
| 2oxTEZw7TCPPcnn-sapM01u | 04-0005 | rated luminous flux of the luminaire    | Value of the initial luminous flux of a given type of luminaire declared by the manufacturer or the responsible vendor, the luminaire being operated at an ambient temperature of 25 °C. The definition of the term "luminous flux" is given in CIE S 017:2020.   |        | 1E0, lm      | n.a.   | 3 430           |
| 2gmo70bVX90u-jh2YA6s62s | 04-0006 | rated luminous flux of the light source | Value of the initial luminous flux of a given type of light source declared by the manufacturer or the responsible vendor, the light source being operated at an ambient temperature of 25 °C. The definition of the term "luminous flux" is given in CIE S 017:2020.   |        | 1E0, lm      | n.a.   | 2 600           |
| 1QmFILGbX6_BfU63rG5mrh  | 04-0007 | luminous efficiency                     | Quotient of the luminous flux emitted by the luminaire and the power absorbed by the light source and associated circuits of the luminaire.   |        | 1E0, lm/W    | n.a.   | 130             |
| 2gMYX1hk-HEE8kQmgimay3h | 04-0008 | optical light output ratio LOR          | Quotient of the total luminous flux of the luminaire, measured under specified practical conditions with its own light source(s) and equipment, and the sum of the individual luminous fluxes of the same light source(s) when operated outside the luminaire with the same equipment, under specified conditions. According to CIE S 017:2020, 17-29-052. Always 1 for LED luminaires with integrated light sources. |        | 1E0, %       | n.a.   | 0,79            |
| 28T0Q968jDwvyx-AshmZRwz | 04-0009 | type of distribution                    | The classification of luminaires regarding the amount of luminous flux emitted into upper or lower half-space. Upward flux fraction (UFF) of 10 % means direct. Upward flux fraction of 30 % means direct/indirect. Upward flux fraction of 70 % means indirect/direct. Upward flux fraction of 90 % means indirect.<br>Reference: ISO/CIE 20086:2019.  |        | n.a.         | direct, indirect, direct /indirect, indirect /direct | direct/indirect |

Table 4 (continued)

| GUID                    | ID      | Name                             | Description  | Symbol | Format, Unit | Value set | Examples   |
|-------------------------|---------|----------------------------------|--|--------|--------------|-----------|--|
| 30711bRGpDp0k-4Brf0hVAO | 04-0010 | downward flux fraction           | Quotient of the downward flux to the total flux of the luminaire.  |        | 1E0, %       | n.a.      |  |
| 3wGph6hnfEOu-WEuOMDd9mz | 04-0011 | downward light output ratio DLOR | Ratio of the downward luminous flux of the luminaire, measured under specified practical conditions with its own light source(s) and equipment, to the sum of the individual luminous fluxes of the same light source(s) when operated outside the luminaire with the same equipment, under specified conditions. Not valid for absolute photometry. |        | 1E0, %       | n.a.      |  |
| 1sYsm6e7H82Ab-C_0tk06XB | 04-0012 | upward light ratio ULR           | Ratio of the total luminaire flux that is emitted above the horizontal by all luminaires to the total luminaire flux from all luminaires in an installation, when the luminaires are mounted in their mounting position.   |        | 1E0, %       | n.a.      |  |
| 00NGdZChz3LACcedAVtNNR  | 04-0013 | upward light output ratio ULOR   | Ratio of the upward luminous flux of the luminaire, measured under specified practical conditions with its own light source(s) and equipment, to the sum of the individual luminous fluxes of the same light source(s) when operated outside the luminaire with the same equipment, under specified conditions. Not valid for absolute photometry.   |        | 1E0, %       | n.a.      | 0,26   |
| 0wVs5X-IEPE5gBsG3nTILKR | 04-0014 | photometric beam shape           | Characteristic form of photometric distribution in a descriptive linguistic form.  |        | n.a.         | n.a.      | Rotation-symmetrical, axial-symmetrical, narrow, medium, flood, linear, symmetrical, double asymmetrical |

Table 4 (continued)

| GUID                    | ID      | Name              | Description  | Symbol | Format, Unit | Value set                     | Examples                           |
|-------------------------|---------|-------------------|--|--------|--------------|-------------------------------|------------------------------------|
| 3UBMXtzMP2ev8R-J6CTkBmS | 04-0015 | tenth-value angle | Angle from the optical beam axis to the point where the luminous intensity is reduced to one tenth. Reference: IEC/TR 61341:2010 and CIE TN 010:2019<br>If the beam is not rotation symmetrical the photometric plane needs to be specified.   |        | 1E0, °       | n.a.                          | 60,<br>C0-C180: 56<br>C90-C270: 64 |
| 1CGIIBHDEBgXIffk-ouXTHt | 04-0016 | half-value angle  | Angle from the optical beam axis to the point where the luminous intensity is reduced to half. Reference: IEC/TR 61341:2010 and CIE TN 010:2019.<br>If the beam is not rotation symmetrical the photometric plane needs to be specified.   |        | 1E0, °       | n.a.                          | 36,<br>C0-C180: 48<br>C90-C270: 31 |
| 2BFsFYpCbFkfbt-jAMzOc   | 04-0017 | photometric code  | A code consists of colour rendering index, correlated colour temperature, initial colour variation (MacAdam ellipse steps), colour variation through life (MacAdam ellipse steps) and luminous flux maintenance factor (Lx). According to "A Guide to the Specification of LED Lighting Products" from the Lighting Industry Liaison Group (2012). |        | n.a.         | n.a.                          | 830/359                            |
| 1vsP4zxU-z78h3Ps8HNe02c | 04-0018 | IES LCS type      | IES Luminaire Classification System (LCS) for Outdoor Luminaires. US Types of luminaire light distribution according to IESNA for street lighting. According to ANSI/IES TM-15-20.   |        | n.a.         | I,<br>II,<br>III,<br>IV,<br>V | II                                 |
| 1lh0A7j0P1yfpulvq-goATC | 04-0019 | IES BUG rating    | The BUG classification (Backlight, Uplight, and Glare) according to ANSI/IES TM-15-20 evaluates the light output of outdoor lights regarding to glare, light pollution and light trespass.   |        | n.a.         | n.a.                          | B1-U0-G1                           |

Table 4 (continued)

| GUID                    | ID      | Name                              | Description  | Symbol   | Format, Unit          | Value set | Examples  |
|-------------------------|---------|-----------------------------------|--|----------|-----------------------|-----------|---|
| 0T1\$bRzzEBPOscE-5oX3a3 | 04-0020 | CIE flux code                     | Set of values of flux triplet, downward flux fraction and light output ratio, representative of the relative flux distribution of the luminaire, used in the calculation of utilization factors and/or utilances. Reference: CIE 40:1978 and CIE 052:1982.   |          | n.a.                  | n.a.      | 45 79 99 100 79   |
| 3Naf15m1f91eUjON-0 bahC | 04-0021 | spectrum                          | The spectrum of radiation describes its composition with regard to wavelength. It is presented as a table of relative emission depending on wavelength (nm). Default steps 5 nm, default interval 380 nm to 780 nm. The photometric file formats ANSI/IES TM-33 or UNI 11733 also contain spectral distributions. Alternatively, to a list of values a file format could be used as asset. E.g., ANSI/IES TM-27-20 provides a XMI based spectrum format. |          | 1E-6, n.a<br>@1E0, nm | n.a.      | 0,021 641@380<br>0,019 419@385<br>0,016 491@390<br>0,016 254@395<br>... |
| 24nX7s16TBMe_Qfk\$rKDn3 | 04-0022 | chromaticity appearance           | Monochromatic colour of light. As name or a description of the colour or as colour coordinate of a specific colour system (e.g. RGB, CIE 1931 XYZ color space).  |          | n.a.                  | n.a.      | blue, red, white  |
| 28UYB1MD91NhF-5F8uF6VCZ | 04-0023 | colour rendering index CRI        | Coefficient that indicates how well the colour of a lit object is perceived by the human eye. The CRI scale ranges from 1 to 100, where 100 means the perfect rendering properties for a specified set of 8 test colour samples. Reference: CIE S 017:2020.  | $R_a$    | 1E0, n.a.             | n.a.      | 86  |
| 0XeHsouWz8PxAS-J4mpkdEY | 04-0024 | correlated colour temperature CCT | The correlated colour temperature of any source of radiation is defined as the temperature (in kelvin) of a black-body or Planckian radiator whose radiation has the nearest same chromaticity as the source of radiation. Reference: CIE S 017:2020.  | $T_{cp}$ | 1E0, K                | n.a.      | 3 100   |

Table 4 (continued)

| GUID                      | ID      | Name  | Description  | Symbol                        | Format, Unit   | Value set | Examples           |
|---------------------------|---------|---|--|-------------------------------|----------------|-----------|--------------------|
| 1BRqnx6Qr6G8K-JpH\$WYYPD_ | 04-0025 | colour temperature adjusting range                                | Lower and upper border of an adjustable colour temperature of a light source.  |                               | 1E0 to 1E0, K  | n.a.      | 2 700 to 6 500     |
| 1Se8FifF5JBgGu-Ax706W1    | 04-0047 | correlated colour temperature change characteristics with dimming | Table of amounts of a correlated colour temperature shift characteristic with dimming value.   |                               | 1E0, K @1E0, % | n.a.      | -100@20<br>-150@40 |
| 0RSzTijYH0M-f1Je5KswHaY   | 04-0048 | correlated colour temperature value after dimming                 | <i>Identical with name.</i>  |                               | 1E0, K @1E0, % | n.a.      | 2 900@10           |
| 1nKsvotTzD-d8KNoXjvcrO4   | 04-0049 | distance to the Planckian locus $D_{uv}$                          | The distance to the Planckian locus, $D_{uv}$ , which is the closest distance of the chromaticity coordinates of a light source from the Planckian locus on the (u', 2/3 v') chromaticity diagram and is positive if the chromaticity coordinate of the light source is above the Planckian locus or negative if it is below the Planckian locus. According to CIE 015:2018. |                               | 1E-2, n.a.     | n.a.      | 0,03               |
| 1am96tjSj0_e6AMEqEh3sq    | 04-0026 | CIE Colour Fidelity Index   | The CIE 224:2017 TR include Fidelity-Index $R_i$ that uses 99 reference colours (CES = Colour Evaluation Samples) to estimate colour rendering and quality Gamut-Index $R_g$ to estimate colour saturation. Also includes a Colour Vector Graphic to see color specific saturations. See also ANSI/IES TM-30-20.   | $R_i$<br>$R_g$<br>$R_{cs,h1}$ | n.a.           | n.a.      | $R_i=93, R_g=99$   |
| 1dN7YuSk56zRdAl-0G0075q   | 04-0027 | TLCI  | Television Lighting Consistency Index (TLCI) evaluate the spectral power distribution of luminaires for television purposes. The higher result the better colour rendering quality from range 0 to 100. Reference: EBU TECH 3353.  |                               | 1E0, n.a.      | n.a.      | 90                 |

Table 4 (continued)

| GUID                      | ID      | Name                            | Description   | Symbol                             | Format, Unit            | Value set  | Examples |
|---------------------------|---------|---------------------------------|---|------------------------------------|-------------------------|--|----------|
| 3JqWxX_JPBDPKVY-VZAezD6   | 04-0028 | $\alpha$ -opic ELR Melanopic    | Melanopic efficacy of luminous radiation for daylight equivalent based on CIE standard illuminant D65. Reference: CIE S 026:2018  | $\alpha_{\text{mel, v, D65}}$      | 1E-4, mW/lm             | n.a.   | 0,838 7  |
| 1\$yRX7no1Augiol-bcsI0I4  | 04-0050 | $\alpha$ -opic ELR S-cone-optic | S-cone-optic efficacy of luminous radiation for daylight equivalent based on CIE standard illuminant D65. Reference: CIE S 026:2018   | $\alpha_{\text{S, v, D65}}$        | 1E-4, mW/lm             | n.a.   | 0,505 7  |
| 3\$\$X8uEFLDP9S-W0EI61esp | 04-0051 | $\alpha$ -opic ELR M-cone-optic | M-cone-optic efficacy of luminous radiation for daylight equivalent based on CIE standard illuminant D65. Reference: CIE S 026:2018   | $\alpha_{\text{M, v, D65}}$        | 1E-4, mW/lm             | n.a.   | 1,287 0  |
| 2Kgzy\$6qj2aBpG-JUE0V_Od  | 04-0052 | $\alpha$ -opic ELR L-cone-optic | L-cone-optic efficacy of luminous radiation for daylight equivalent based on CIE standard illuminant D65. Reference: CIE S 026:2018   | $\alpha_{\text{L, v, D65}}$        | 1E-4, mW/lm             | n.a.   | 1,625 3  |
| 2eGShsv\$j349G-tIphYeYUF1 | 04-0053 | $\alpha$ -opic ELR Rhodopic     | Rhodopic efficacy of luminous radiation for daylight equivalent based on CIE standard illuminant D65. Reference: CIE S 026:2018   | $\alpha_{\text{Rhodopic, v, D65}}$ | 1E-4, mW/lm             | n.a.   | 1,012 6  |
| 21JRpyk419WuBLx-jfSqXoY   | 04-0029 | PAR                             | Photosynthetically Active Radiation in the 400 nm to 700 nm waveband.   |                                    | 1E-2, W·m <sup>-2</sup> |  |          |
| 1NvFrN1kP1MBnw-jfcEtZS9   | 04-0030 | initial colour tolerance        | Initial Colour Tolerance in Standard Deviation of Colour Matching (SDCM). The ANSI standard (American National Standards Institute) defines colour value deviations using MacAdam ellipses (also called Standard Deviation of Colour Matching, SDCM). They describe areas in the CIE colour diagram and define just perceptible colour differences. See also ANSI C78.377-2008. |                                    | n.a.                    | 1 SDCM,<br>2 SDCM,<br>3 SDCM,<br>4 SDCM,<br>5 SDCM,<br>6 SDCM,<br>7 SDCM | 2 SDCM   |

Table 4 (continued)

| GUID                     | ID      | Name                                 | Description  | Symbol | Format, Unit             | Value set  | Examples         |
|--------------------------|---------|--------------------------------------|--|--------|--------------------------|--|------------------|
| 2XiNAY-0D121wETmb0Am-ovG | 04-0031 | maintained colour tolerance          | Maintained Colour Tolerance after 6 000 h in Standard Deviation of Colour Matching (SDCM). The ANSI standard (American National Standards Institute) defines colour value deviations using MacAdam ellipses (also called Standard Deviation of Colour Matching, SDCM). They describe areas in the CIE colour diagram and define just perceptible colour differences. See also ANSI C78.377-2008.   |        | n.a.                     | 1 SDCM,<br>2 SDCM,<br>3 SDCM,<br>4 SDCM,<br>5 SDCM,<br>6 SDCM,<br>7 SDCM | 3 SDCM           |
| 2VsGUEC0v62AXk-p0i8pFri  | 04-0032 | rated chromaticity coordinate values | Chromaticity coordinates ratio of each of a set of 3 tristimulus values to their sum according ISO/CIE 11664-1:2019.   |        | 1E-3, n.a.               | n.a.   | x:0,458, y:0,411 |
| 0J5hwLgUf4YAvWr-E2XCwq4  | 04-0033 | cut-off angle                        | As the sum of the 3 chromaticity coordinates is equal to 1, two of them are sufficient to define a chromaticity. In the CIE standard colorimetric systems, the chromaticity coordinates are represented by the symbols $x, y, z$ and $x_{10}, y_{10}, z_{10}$ .<br>Angle, measured up from nadir, between the vertical axis and the first line of sight at which the light sources and the surfaces of high luminance are not visible.<br>If the beam is not rotation symmetrical the photometric plane needs to be specified. |        | 1E0, °                   | n.a.   | 40               |
| 0plc23S-8D6o0MzeqDx58d1  | 04-0034 | UGR 4H8H 70/50/20 L/Q                | Unified glare rating (UGR) table value of the room width of $4 \times H$ and the room length of $8 \times H$ and reflection factors of 70/50/20 for transverse and parallel to light source axis.  |        | L1E0, n.a.<br>Q1E0, n.a. | n.a.   | L24 Q25          |

Table 4 (continued)

| GUID                     | ID      | Name                                    | Description  | Symbol | Format, Unit           | Value set           | Examples                |
|--------------------------|---------|---|--|--------|------------------------|---------------------|-------------------------|
| 0ncEfeE8r1tAcki-u\$03ei2 | 04-0035 | luminaire luminance                     | Maximum of the luminaire surface luminance with a radiation angle of $\geq 65^\circ$ . Reference: CIE 117-1995,4.3<br>This value is needed to apply EN 12464-1:2021, 5.9.2 and ISO 8995-1:2002.  |        | 1E0, cd/m <sup>2</sup> | n.a.                | 1 835                   |
| 2h_4l\$WjAF-8g08u\$1m5iL | 04-0036 | DSE workplaces approve                  | Display Screen Equipment workplaces approve according to IEC 62471:2006/ CIE S 009:2002.   |        | n.a.                   | Yes<br>No           | Yes                     |
| 1PL17P9t53oeZk-soRkx7Y   | 04-0037 | photobiology class                      | The required measurement methods and the calculation methodology are set in the harmonized standard IEC 62471:2009/CIE S009:2006 "Photobiological safety of lamps and lamp systems". The standard divides the sources of incoherent optical radiation into four groups: in the Exempt Group (no photobiological risk) and the Risk Groups 1 to 3 with increasing hazard potential. |        | 1E0, n.a.              | 0,<br>1,<br>2,<br>3 | 0                       |
| 3weB85rrjD-BOfsW2DojyA8  | 04-0038 | photometric class according to DIN 5040 | Photometric classification according to German standard DIN 5040. The contributions to the effective luminous flux are then rated and summed up per room segment.  |        | n.a.                   | n.a.                | B53                     |
| 3bKRB3yaT3s-8fMSI_u6Kyb  | 04-0040 | photometric class according to UTE      | Photometric classification according to French standard NF (UTE) C71-121 (1995) in France, "Méthode simplifiée de prédétermination des éclairagements dans les espaces clos et classification correspondante des luminaires".  |        | n.a.                   | n.a.                | 0,54 B + 0,26 T         |
| 2EYqu_hCHFE-00cQ_qv5wD\$ | 04-0042 | flicker predictor                       | Impression of unsteadiness of visual sensation induced by a light stimulus whose luminance or spectral distribution fluctuates with time.  |        | n.a.                   | n.a.                | PstLM,<br>flicker index |

Table 4 (continued)

| GUID                     | ID      | Name                                | Description   | Symbol | Format, Unit | Value set                  | Examples   |
|--------------------------|---------|-------------------------------------|---|--------|--------------|----------------------------|--|
| 3m2sildQf5vfjMpD-BjRm7A  | 04-0054 | light waveform                      | Temporal light modulation of a light source or lighting system according to CIE TN 012:2021.  |        | n.a.         | n.a.                       | dominant frequency (Hz), modulation depth (%), duty cycle (%), waveform shape (rectangular, sinusoidal, irregular) |
| 1r0Izi\$gb9FQAY3I-zwGIQH | 04-0044 | glare index classes                 | Glare index classes according to EN 13201-2:2015,A.2.   |        | n.a.         | D0, D1, D2, D3, D4, D5, D6 | D4   |
| 1ulcTlh-3v58Qk62qq\$Vp9Q | 04-0045 | luminous intensity classes          | Luminous intensity classes according to CIE 115:2010, Table D.1.  |        | n.a.         | G1, G2, G3, G4, G5, G6     | G3   |
| 0DEC0slYfE\$vgGu-ckv0i7w | 04-0046 | stroboscopic visibility measure SVM | The stroboscopic visibility measure (SVM) metric aims to assess the stroboscopic effect which can occur in conjunction with moving objects and light modulation in the frequency range 80 Hz to 2 000 Hz. |        | n.a.         | without                    | 0,9  |

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Table 5 — Sensing device properties

| GUID                    | ID      | Name                      | Description  | Symbol | Format, Unit     | Value set   | Examples |
|-------------------------|---------|---------------------------|--|--------|------------------|---|----------|
| 2eE6ivKdb3xANG-8HGEDFZH | 05-0001 | detector characteristics  | Shape of the detection area.   |        | n.a.             | round,<br>square,<br>other  |          |
| 2C6Bl_wyb9muBfd\$Z_MZiE | 05-0002 | detection area            | Defines the detection angle or the detection area for the standard mounting height. For round area: the angular range from 1° to 360° and radius [m]. For rectangular area: L × W [m]. |        | 1E0, °<br>1E0, m | n.a.  | 4 × 5    |
| 1nk0bIH5CxeBD-CDq2Wyx   | 05-0003 | detection area adjustable | The type of the adjustment of the detection area.  |        | n.a.             | no,<br>cover,<br>label,<br>integrated, mechanism,<br>electronic<br><i>multiple option selection</i>                       |          |
| 2iV9K3GCTD9Aw-DRJQ2QaSP | 05-0004 | type of detector          | The type of detection possible for sensing device.   |        | n.a.             | Motion Detector,<br>Presence Detector,<br>Daylight Detector<br><i>multiple option selection</i>                           |          |
| 0eq8jpPhf2mxsbyx-HgN4rg | 05-0005 | detection method          | Applied technology for detection.  |        | n.a.             | Passive Infrared,<br>High Frequency,<br>Microwave,<br>Ultrasonic,<br>Camera,<br>other<br><i>multiple option selection</i> |          |

Table 5 (continued)

| GUID                      | ID      | Name                          | Description  | Symbol | Format, Unit     | Value set  | Examples                  |
|---------------------------|---------|-------------------------------|--|--------|------------------|--|---------------------------|
| 0fafA0Xg17xAy-phZUB6DEj   | 05-0006 | radiation power               | <i>Identical with name.</i>  |        | 1E-2, W          | n.a.   |                           |
| 3ce0GuHgZ4Px_qL3kqmnLB    | 05-0007 | HF frequency                  | The frequency of High Frequency radiation for sensing devices/radar sensors.   |        | 1E-2, GHz        | n.a.   | 5,8                       |
| 02qYRg2w-1BRufMbYctgnox   | 05-0008 | major motion detection area   | Movement of a person walking into an area or walking within an area.<br>For round area: the angular range from 1° to 360° and radius [m]. For rectangular area: L x W [m]. See IEC 63180:2020. |        | 1E0, °<br>1E0, m | n.a.   |                           |
| 3E7MzAVgHDIB-QldGhHFHL1   | 05-0010 | minor motion detection area   | Small movements of a person or a part of a person within an area.<br>For round area: the angular range from 1° to 360° and radius [m]. For rectangular area: L x W [m]. See IEC 63180:2020.    |        | 1E0, °<br>1E0, m | n.a.   |                           |
| 1ymgRlSerBqBwAL-giHgX7j   | 05-0011 | testing method                | The testing of the detection area was done according to IEC 63180:2020.  |        | n.a.             | Yes<br>No  | Automatic<br>Manual<br>No |
| 1MWULf\$c11YB-SMTdevnV\$G | 05-0012 | detection range adjustable    | The method of adjustment of detection range.   |        | n.a.             | no,<br>cover,<br>label,<br>integrated mechanism,<br>electronic<br><i>multiple option selection</i> |                           |
| 24jtpZAXPBef5VI-4064p98   | 05-0013 | number of PIR switching zones | Number of PIR Switching zones indicates how sensitive the sensing device is for detection of small movement.   |        | 1E0, n.a.        | n.a.   | 1 400                     |

Table 5 (continued)

| GUID                    | ID      | Name                       | Description  | Symbol | Format, Unit   | Value set   | Examples |
|-------------------------|---------|----------------------------|--|--------|----------------|---|----------|
| 1P_6Ftq01BWh4HT-GTurOn8 | 05-0014 | number of detection areas. | Number of individually analysable detection areas.                       |        | 1E0, n.a.      | n.a.  |          |
| 0ZLLxjlvv6i9vtR-cuL17nh | 05-0015 | other sensing devices      | Features to measure other parameters by sensing device.                  |        | n.a.           | Illuminance,<br>Temperature on ceiling,<br>Temperature on surface below,<br>Volatile, Organic Compounds,<br>Humidity,<br>CO <sub>2</sub> ,<br>Noise,<br>Number of persons<br><i>multiple option selection</i> |          |
| 0yWXemifLBGBnz-VtqC_b8Q | 05-0016 | illuminance range          | Determines the illuminance range that can be measured by sensing device. |        | 1E0 to 1E0, lx | n.a.  | 0 to 400 |
| 3xgdt_HlZ889E-k6KSUeCE5 | 05-0017 | operation mode             | Mode of operation like full automatic or half automatic.                 |        | n.a.           | full automatic,<br>half automatic,<br>constant light control,<br>on/off<br><i>multiple option selection</i>   |          |
| 3rSw5_7y94zx-vrAini0W2u | 05-0019 | inter-connection mode      | Interconnection with other sensing devices.                              |        |                | Master/Slave,<br>Master/Master  |          |

Table 5 (continued)

| GUID                      | ID      | Name                                | Description   | Symbol | Format, Unit   | Value set                                     | Examples                  |
|---------------------------|---------|-------------------------------------|---|--------|----------------|---|---------------------------|
| 18DBbGWjXFbRcO-Rysjk7TX   | 05-0020 | channel <i>n</i>                    | Channel <i>n</i> function.  |        |                | no,<br>Light,<br>HVAC,<br>other               |                           |
| 2MMb3d\$6fDdxWo-q1W\$ZGln | 05-0021 | switch input channel <i>n</i>       | Directly connectable switch for channel <i>n</i> .                |        | n.a.           | Yes<br>No                                     |                           |
| 3csxKAakP79PFF8_VH6_b4    | 05-0022 | output channel <i>n</i>             | Identical with name.  |        |                | Relay floating,<br>Relay non-floating,<br>Dim |                           |
| 1wCN2A\$WbE-8fKo62d91E_m  | 05-0023 | separate light measurement <i>n</i> | Sensing device channel <i>n</i> has a separate light measurement. |        | n.a.           | Yes<br>No                                     |                           |
| 28uWq1nqP3XgcT-zLzylewL   | 05-0024 | delay time channel <i>n</i>         | Switch-off delay after last detection for channel <i>n</i> .      |        | 1E0, s         | n.a.  |                           |
| 07VBqU4vn4ouin-VL_JTUltra | 05-0025 | delay time orientation light        | Switch-off delay after delay time.                                |        | 1E0, s         | n.a.  |                           |
| 1M2v5GMAJ-ByhRQPjDnZjSf   | 05-0026 | on delay time channel <i>n</i>      | Switch-on delay after last detection for channel <i>n</i> .       |        | 1E0, s         | n.a.  |                           |
| 3waXMP9nLE3BiT-n9dGuiFj   | 05-0027 | orientation light                   | Reduced artificial light after the delay-time passed.             |        | min % to max % | n.a.  |                           |
| 0Lb\$H8dJ52ZvfI9Y-SL5M6i  | 05-0028 | remote control                      | Operation/settings with remote control.                           |        | n.a.           | no,<br>IR,<br>RF,<br>Bluetooth,<br>WiFi       | multiple option selection |
| 315DBp\$G5BYgD-3F40Zha26  | 05-0029 | remote control deactivateable       | Operation/settings with remote control deactivateable.            |        | n.a.           | Yes<br>No                                     |                           |

Table 5 (continued)

| GUID                    | ID      | Name                                 | Description  | Symbol | Format, Unit         | Value set | Examples |
|-------------------------|---------|--------------------------------------|--|--------|----------------------|-----------|----------|
| 10FyhmRzL5cx-5mPB_MdfTB | 05-0030 | switching capacity of sensing device | Switching capacity of sensing device. Power and cos phi. |        | 1E-1, W<br>1E0, n.a. | n.a.      |          |
| 2ogWrM06H5Gxfzo-DEWfau  | 05-0031 | sensing device position              | Relative position of luminaire and sensing device.       |        | 1E0, m               | n.a.      |          |

Table 6 — Mounting & Accessory properties

| GUID                     | ID      | Name                  | Description  | Symbol | Format, Unit | Value set  | Examples                    |
|--------------------------|---------|-----------------------|--|--------|--------------|--|-----------------------------|
| 2Js\$Q5CD1r9USP-JVLD951  | 06-0001 | typical assembly site | Typical assembly site in indoor or outdoor premises.   |        | n.a.         | indoor, outdoor, indoor and outdoor  | Indoor                      |
| 1j\$UsOSPP4NBI-LY9q7mCWW | 06-0002 | mounting place        | Place, where the luminaire or the detector can be mounted. Multiple selections are possible. |        | n.a.         | Ceiling, Grid ceiling, Conductor rail, Wall, Floor, Pole, Desk, Catenary, other  | Ceiling or Wall             |
| 3m5UX0NuH4YR-PUJ1EmzXz7  | 06-0003 | mounting type         | Type of mounting used for the luminaire or sensing device. Multiple selections are possible. |        | n.a.         | Surface Mounted, Pendant, Free Standing, Recessed, Partly recessed, Trim-less-recessed, Pole-top, Pole-side entry, Pole-integrated, Conductor rail, connector, other | Pole-top or Pole-side entry |

Table 6 (continued)

| GUID                     | ID      | Name                                       | Description  | Symbol | Format, Unit | Value set | Examples |
|--------------------------|---------|--|--|--------|--------------|-----------|----------|
| 3y6XZj_WfAuRm3f-gIIBh0R  | 06-0004 | mounting point offset position x direction | x position of the point used as origin for the mounting in relation to the middle of the bounding box. Positive values are aligned with the C0 level. Negative values are aligned with the C180 level.   |        | 1E0, mm      | n.a.      |          |
| 1yEzJyufC8uErTH-hzqxUF   | 06-0005 | mounting point offset position y direction | y position of the point used as origin for the mounting in relation to the middle of the bounding box. Positive values are aligned with the C90 level. Negative values are aligned with the C270 level.  |        | 1E0, mm      | n.a.      |          |
| 34itbruFnDWgv-JgUmwG\$rq | 06-0006 | mounting point offset position z direction | z position of the point used as origin for the mounting in relation to the middle of the bounding box. Positive values are aligned with the gamma angle 180° (up). Negative values are aligned with the gamma angle 0° (down).<br>If the mounting point is at the upper side then this value has to be the half of the height. |        | 1E0, mm      | n.a.      |          |
| 2ebPfcuzP6euRypn-hmgpDH  | 06-0007 | default mounting height                    | Default distance from floor to mounting point of the luminaire or sensing device.  |        | 1E0, mm      | n.a.      |          |
| 3b4KsrGCb2dw20r-1JqfnoW  | 06-0008 | default mounting distance                  | Default distance from ceiling to luminaire or sensing device.  |        | 1E0, mm      | n.a.      |          |
| 3gpxb3oaLA8Bk-chUDMfQDm  | 06-0009 | minimum mounting height                    | Minimum distance from floor to mounting point of the luminaire or sensing device.  |        | 1E0, mm      | n.a.      |          |
| 33Kd_d\$Xv1GgCDg-5DDP5vn | 06-0010 | maximum mounting height                    | Maximum distance from floor to mounting point of the luminaire or sensing device.  |        | 1E0, mm      | n.a.      |          |
| 3hG4MOE1n7S8A-B5aJLRMVj  | 06-0011 | applied mounting height                    | Selected distance from floor to mounting point of the luminaire or sensing device.   |        | 1E0, mm      | n.a.      |          |

Table 6 (continued)

| GUID                      | ID      | Name                                     | Description   | Symbol | Format, Unit         | Value set | Examples  |
|---------------------------|---------|--|---|--------|----------------------|-----------|---|
| 0nqhEfiCr249N-vE9Fv2yTf   | 06-0012 | maximum pendant length                   | Identical with name.  |        | 1E0, mm              | n.a.      |   |
| 22ydbaQRPEC9lt_tK6Qw4Q    | 06-0013 | applied pendant length                   | Selected pendant length in current situation.   |        | 1E0, mm              | n.a.      |   |
| 1x76Uc_LbDvH6m-rLicsUNS   | 06-0014 | spacing between fixing points            | Distance between two fixing points.   |        | 1E0, mm              | n.a.      |   |
| 3BBci8ACb3Ff6\$2n-Rfx7Cg  | 06-0015 | mounting outside the arms reach          | The mounting of the lighting system happens outside the normal reach of an installers arm's length. Extra tooling is needed.                                |        | n.a.                 | Yes<br>No |   |
| 2IRI_DnFf97P6CA-O2kfYEep  | 06-0016 | windage                                  | Projected area which is used calculate wind resistance for structural calculations.   |        | 1E-2, m <sup>2</sup> | n.a.      |   |
| 3T\$XxssuT-27P04Ye\$Vikp  | 06-0017 | ball impact resistant                    | Ball impact resistant according to VDE 0710-13:1981.  |        | n.a.                 | Yes<br>No |   |
| 0uHyOzAgvCyRqsN-VDKfTFI   | 06-0018 | EX classification properties             | Specifies whether the fitting is intended for installation in an explosive environment. According to IEC 60079-0:2017, IEC 60079-15:2017, IEC 60079-7:2015. |        | n.a.                 | n.a.      | Ex d e IIC T4<br>Gb   |
| 1PHo3fKGj5Vfdmyy-1dCzYd   | 06-0019 | type and function of mandatory accessory | Type and function of mandatory electrical, optical or mechanical accessory.   |        | n.a.                 | n.a.      |   |
| 2IlcSlkhzBQvi6jClb-KMm.\$ | 06-0020 | type and function of optional accessory  | Type and function of optional electrical, optical or mechanical accessory.  |        | n.a.                 | n.a.      | Barndoors,<br>Ring Louver,<br>Softener,<br>Snooze, Cut-off<br>Shielding |
| 1ebB1Zyww92L8aun-jbTiNu1  | 06-0021 | applied accessory                        | Selected accessory.   |        | n.a.                 | n.a.      |   |
| 2IG7sF6af5sRrHY-USubDNV   | 06-0022 | thickness of ceiling minimum             | The minimum thickness of the ceiling for recessed or flush mount.   |        | 1E0, mm              | n.a.      |   |
| 3bww1seCDA3x-O1TXuKRla5   | 06-0023 | thickness of ceiling maximum             | The maximum thickness of the ceiling for recessed installation.   |        | 1E0, mm              | n.a.      |   |

Table 6 (continued)

| GUID                     | ID      | Name                           | Description   | Symbol      | Format, Unit        | Value set  | Examples               |
|--------------------------|---------|--------------------------------|---|-------------|---------------------|--|------------------------|
| 0DRBpoc\$LCOX-VU4CNwfUgl | 06-0024 | required space in ceiling      | The minimum needed space in a ceiling for recessed luminaires e.g. for thermal aspects. |             | 1E0, m <sup>3</sup> | n.a.   |                        |
| 20q5QYgMf06gdsX-n61YqDa  | 06-0025 | covering of insulation allowed | Covering of insulation in a ceiling is allowed for the luminaire.                       |             | n.a.                | Yes<br>No  |                        |
| 33M24NjTn3Sx-pLaPp27aqY  | 06-0026 | wall thickness                 | The minimum required wall thickness for mounting.                                       |             | 1E0, mm             | n.a.   |                        |
| 2qdZ6NbnCfOA-JFXNAjkhw   | 06-0027 | with starter                   | The luminaire has a starter.  |             | n.a.                | Yes<br>No  |                        |
| 2gr49_xaP4601yRd-Kp3PXXW | 06-0028 | min. ambient temperature       | Minimal ambient temperature.  | $T_{a,min}$ | 1E0, °C             | n.a.   | -5                     |
| 0f2B86WL1Dau-qVXMD\$Svdh | 06-0041 | max. ambient temperature       | Maximal ambient temperature.  | $T_{a,max}$ | 1E0, °C             | n.a.   | 40                     |
| 2Hn3h7rk-b0RhRhIOAzSkNR  | 06-0029 | relative humidity range RH     | The relative humidity of environment that enables product to function.                  |             | 1E0 to 1E0, %       | n.a.   | 0 to 85                |
| 3m_7Bd74r4Pw-fVU5h_M3Cc  | 06-0030 | conductor rail type            | Conductor rail type, if needed.   |             | n.a.                | n.a.   | conductor rail type RA |
| 3Kg5x8k-WrLzhsZyRr300vs  | 06-0031 | Bracket                        | The luminaire has a boom.   |             | n.a.                | Yes<br>No  |                        |
| 36UjpsfZD7a8lw-8fvXDofT  | 06-0043 | bracket to luminaire diameter  | Diameter of arm or mounting bracket for fixation of a luminaire                         |             | 1E0, mm             | n.a.   | 60                     |
| 2P36C2ZwH7cuGia-RJlyiCQ  | 06-0032 | bracket length                 | Length of the boom.   |             | 1E0, mm             | n.a.   |                        |
| 1xemg75ajBT-PMS5G7a6XYC  | 06-0033 | Pole                           | Specifies which type of pole is suitable.   |             | n.a.                | Conical,<br>Cylindrical,<br>System pole,<br>Bollard base element,<br>Other |                        |
| 3sUm8npDPCLwP-blk JzmT_  | 06-0034 | pole height                    | The height of the pole.   |             | 1E-2, m             | n.a.   |                        |

Table 6 (continued)

| GUID                     | ID      | Name                       | Description  | Symbol | Format, Unit | Value set   | Examples |
|--------------------------|---------|----------------------------|--|--------|--------------|---|----------|
| 13nvJo5TjBevj9X-q8d0d_k  | 06-0035 | pole material              | The material of which the pole is mainly made of.      |        | n.a.         | Aluminium,<br>Galvanised steel,<br>Timber,<br>Other |          |
| 14NxmcBlnDDg-k6xXOL9Ydl  | 06-0036 | pole accessory             | Specifies which extra accessory are required for pole. |        | n.a.         | Pole door,<br>other                                 |          |
| 2SWE7gcPD5VO-e7RpsLynyc  | 06-0037 | with ascending aid         | Specifies whether the pole has an ascending aid.       |        | n.a.         | Yes<br>No   |          |
| 2rhswpHMv6jx-nu7t2SG\$8a | 06-0038 | with base plate            | Specifies whether the pole has a base plate.           |        | n.a.         | Yes<br>No   |          |
| 1HwoGGCU51GuZ-cYqOLj23B  | 06-0039 | Foldable                   | Specifies whether the pole is foldable.                |        | n.a.         | Yes<br>No   |          |
| 3ZohUj9if8EBuv-5LU5H7s9  | 06-0040 | tenon diameter             | The size of tenon for mounting on the pole.            |        | 1E0, mm      | n.a.  | 60       |
| 0RUiuKsU90ifoI-hj4j16z1  | 06-0042 | installation specification | Installation specification file.                       |        | n.a.         | n.a.  |          |

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Table 7 — Marketing properties

| GUID                     | ID      | Name                | Description  | Symbol | Format, Unit | Value set   | Examples |
|--------------------------|---------|---------------------|--|--------|--------------|---|----------|
| 3pjicXRst9mAFfcOBnThlw   | 07-0001 | product name        | Luminaire name.  |        | n.a.         | n.a.  |          |
| 3gmbhSjFD4JOP-QZ7_1\$HzY | 07-0002 | Manufacturer        | <i>Identical with name.</i>                              |        | n.a.         | n.a.  |          |
| 322VYxGFH-6DOZH0mPOqDqO  | 07-0003 | URL manufacturer    | Manufacturer website address.                            |        | n.a.         | n.a.  |          |
| 29UfpgwX5Eyu\$K-CZlxfjZy | 07-0004 | item number         | Product number.  |        | 1E0, n.a.    | n.a.  |          |
| 1UbCUUp8z5Cg3dm-IqQ4lsq  | 07-0005 | product picture     | Picture of the product as file.                          |        | n.a.         | n.a.  |          |
| 020_6qAJj-7f0641UbZtyld  | 07-0006 | 2D symbol           | Symbol in floor plan.                                    |        | n.a.         | n.a.  |          |
| 0uHyDd8Gb9\$fp-0seVNo6UJ | 07-0007 | URL product website | Product page website address. Deep link.                 |        | n.a.         | n.a.  |          |
| 2SivCAZun4Wxd4kh-WGmURU  | 07-0008 | product data sheet  | <i>Identical with name.</i>                              |        | n.a.         | n.a.  |          |
| 3sfcCPOKnB5f2vY_zitAto   | 07-0009 | product group       | <i>Identical with name.</i>                              |        | n.a.         | n.a.  |          |
| 3Im9FC0mL7guh-zlonQ2RjN  | 07-0010 | Application         | Field of application for the luminaire.                  |        | n.a.         | Indoor,<br>Outdoor,<br>Domestic Lighting,<br>Office,<br>Retail,<br>Health,<br>Sport,<br>Hospital,<br>Architectural,<br>Others<br><i>multiple option selection</i> |          |
| 1H6f7P71571P_cjMg7gPxK   | 07-0011 | product family      | Manufacturer specific product groups or modular systems. |        | n.a.         | n.a.  |          |

Table 7 (continued)

| GUID                     | ID      | Name             | Description   | Symbol | Format, Unit | Value set | Examples   |
|--------------------------|---------|------------------|---|--------|--------------|-----------|--|
| 1u894\$Gsj3PPXX-6m5zKIOG | 07-0012 | Description      | Description or comments.  |        | n.a.         | n.a.      |  |
| 1PP9ePMOD2Cg-8c791pC_V3  | 07-0013 | Features         | Free text to describe product.  |        | n.a.         | n.a.      |  |
| 2miHloA8z7qwVd3X-UvTBLm  | 07-0059 | special function | Special function or extra function.   |        | n.a.         | n.a.      | Horticulture   |
| 1PfnLpEVb-6493m0a03614o  | 07-0014 | tender text      | Tender text of the product.   |        | n.a.         | n.a.      |  |
| 20f18_YFT4IOFQwk-92MRwM  | 07-0015 | GTIN number      | GTIN number (previously EAN) is a unique product/article number for handling, tracking, and identification of products. GTIN (Global Trade Item Number) is issued by GS1. |        | n.a.         | n.a.      | 4158352058930  |
| 0ZQK4SN5b1_OlhcX6xr9TZ   | 07-0016 | EL-number        | EL-number is a product / article number for electrical material providing efficient handling and identification of products in the electrical industry. Country specific. |        | n.a.         | n.a.      |  |
| 0t3b9jtWP9uxX-2ceuaaw31x | 07-0017 | EBKP number      | EBKP number for Swiss tenders.  |        | n.a.         | n.a.      |  |
| 0A07nhSa9Fz-BQWUu\$Q4E5D | 07-0018 | EFO class number | EFO class number.<br><a href="http://efobasen.efo.no/">http://efobasen.efo.no/</a>  |        | n.a.         | n.a.      |  |
| 1BRkxPEZ94jwUm-qiTtK6xx  | 07-0019 | conformity mark  | Specifies which conformity mark a product has.  |        | n.a.         | n.a.      | CE,<br>CCC,<br>EAC   |
| 3AdnhhX2L3bB-C6l6oSZU60  | 07-0020 | approval mark    | Specifies which approval marks a product has.   |        | n.a.         | n.a.      | ENEC,<br>VDE,<br>UL,<br>IFS Food, Certificate,<br>D sign,<br>IDA |