

LightingEurope

EU Compliant Requirements

Products Sheets for LUMINAIRES

1st Edition

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a. Disclaimer

This information is for general guidance on matters of interest only. While every attempt to ensure that the information has been obtained from reliable sources has been made, LightingEurope is not responsible for any errors or omissions or for the results obtained from the use of this information. All information is provided with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information, and without warranty of any kind, express or implied, including, but not limited to warranties of performance, merchantability and fitness for a particular purpose. In no event will LightingEurope, its related partnerships or corporations, or the partners, agents or employees thereof be liable to you or anyone else for any decision made or action taken in reliance on the information or for any consequential, special or similar damages, even if advised of the possibility of such damages.

The pictures displayed in this Guidance document are kindly provided by the members of LightingEurope.

b. Introduction

The European Association LightingEurope representing the interests of the lighting industry in Europe has developed summary check lists and detailed EU Compliant Requirements Products Sheets for its major lighting products' groups to support the Market Surveillance and Customs Authorities in the various EU Member States to identify compliance and/or non-compliance of the major lighting products' groups with the applicable EU legislation requirements.

These summary check lists and detailed EU Compliant Requirements Products Sheets for lighting products provide economic operators with a simple and immediate way to:

- Identify the product
- Identify the applicable legislation
- Check the label of the product and its markings
- Identify what kind of visual check may easily be done

This document contains EU Compliant Requirements Products Sheets for the following types of LUMINAIRES:

1. Fixed luminaires – wall, ceiling and recessed
2. Luminaires for road and street lighting
3. Floodlights
4. Emergency luminaires
5. Portable rechargeable luminaires
6. Table-floor standing portable luminaires

c. Summary check lists for luminaires

1. Summary check list for fixed luminaires – wall, ceiling and recessed




Combined nomenclature (CN) Code:

CN Code: 9405 10 Fixed luminaire (wall, ceiling and recessed)

Name of the product.....

<input checked="" type="checkbox"/>	<i>If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.</i>
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FORMAL REQUIREMENTS			
The conformity marking CE			
		YES	NO
1.	Is there the CE marking?		
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> – on the product itself <u>or</u> – on the packaging? 		
Basic information and warnings			
Marking on the products			
3.	Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, <u>or</u> authorised representative's <u>or</u> importer's identification)		
4.	Is there the model number or type reference?		
5.	Is there the rated voltage (V)? Luminaires for tungsten filament lamps shall be marked only if the rated voltage is different from 250 V.		
6.	Is there the rated Wattage (W)? Note: this is only for lamp replacement identification.		

7.	Is there the degree of protection IP? Not required for IP 20 luminaire		
8.	Is there the symbol for class II  or class III  ? Class II symbol is required for luminaire to be connected to the mains supply network and provided without the earthing terminal or with plug without earthing contact. Class III symbol is required for luminaire to be supplied with voltage lower than 50V a.c. or 120 d.c.		
9.	Is there the crossed wheeled bin (WEEE directive)?		
Information to be provided with the luminaire (manufacturer instruction sheet)			
10.	Is the luminaire provided with instructions sheet containing all details which are necessary to ensure proper installation, use and maintenance?		
PHYSICAL CHECKS			
11.	Are there any sharp edges, burrs, cutting traces, etc. which may damage the wire insulation?		
12.	Is the lampholder in compliance with the relevant standard? (refers to the lampholder checklist)		
13.	Is the luminaire protected against accessibility to live part, after has been installed and wired as in normal use, and when it is opened as necessary for replacing lamps or starters?		
14.	In case the lamp is delivered with the luminaire is the lamp in conformity with the requirements for CE marking and with the applicable legislation? (lamp is to be considered as a separate product).		
15.	In case of luminaire with earth connection (class I luminaire), are all metal part which are accessible in normal use, or when the luminaire is open for lamp replacement, connected to earth? Note: this is not necessary if the metal part is not close to live parts or to basic insulation.		

Contact details of the competent market surveillance authority

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2. Summary check list for luminaires for road and street lighting – floodlight

Combined nomenclature (CN) Codes:

CN Codes: 9405 40 XX: Luminaire for road and street lighting




9405 40 10: Floodlight

Name of the product.....



If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.

FORMAL REQUIREMENTS			
The conformity marking CE			
		YES	NO
1.	Is there the CE marking?		
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> – on the product itself or – on the packaging? 		
Basic information and warnings			
<i>Marking on the products</i>			
3.	Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, or authorised representative's or importer's identification)		
4.	Is there the model number or type reference?		
5.	Is there the rated voltage (V)?		
6.	Is there the rated Wattage (W)? Note: this is only for lamp replacement identification.		

7.	Is there the degree of protection IP?		
8.	Is there the symbol for class II  or class III  ? Class II symbol is required for luminaire to be connected to the mains supply network and provided without the earthing terminal or with plug without earthing contact. Class III symbol is required for luminaire to be supplied with voltage lower than 50V a.c. or 120 d.c.		
9.	Is there the crossed wheeled bin (WEEE directive)?		
Information to be provided with the luminaire (manufacturer instruction sheet)			
10.	Is the luminaire provided with instructions sheet containing all details which are necessary to ensure proper installation, use and maintenance?		
11.	Is there the operating position (if not universal) ?		
12.	Is there an indication for the suitability or not suitability for use indoors?		
PHYSICAL CHECKS			
13.	Are there any sharp edges, burrs, cutting traces, etc. which may damage the wire insulation?		
14.	Is there a cord anchorage that allows the installer to fix the supply cable in order to avoid any mechanical stress (pull and torque) on the connections?		
15.	Is the lampholder in compliance with the relevant standard? (refers to the lampholder check list)		
16.	Is the luminaire protected against accessibility to live part, after has been installed and wired as in normal use, and when it is opened as necessary for replacing lamps or starters?		
17.	In case the lamp is delivered with the luminaire is the lamp in conformity with the requirements for CE marking and with the applicable legislation? (lamp is to be considered as a separate product).		

Contact details of the competent market surveillance authority

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3. Summary check list for emergency luminaires

Combined nomenclature (CN) Code:




CN Code : 9405 10 Emergency luminaire (self contained)

Name of the product.....



If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.

FORMAL REQUIREMENTS			
The conformity marking CE			
		YES	NO
1.	Is there the CE marking?		
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> – on the product itself or – on the packaging? 		
Basic information and warnings			
Marking on the products			
3.	Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, or authorised representative's or importer's identification)		
4.	Is there the model number or type reference?		
5.	Is there the rated voltage (V)?		
6.	Is there the lamp data (rated Wattage and type) provided? Required if the lamp is replaceable Note: this is only for lamp replacement identification.		
7.	Is there the degree of protection IP? Not required for IP 20 luminaire		

8.	Is there the symbol for class II  or class III  ? Class II symbol is required for luminaire to be connected to the mains supply network and provided without the earthing terminal or with plug without earthing contact. Class III symbol is required for luminaire to be supplied with voltage lower than 50V a.c. or 120 d.c.						
9.	Is there the Type of battery and rated voltage?						
10.	Is there the detail for luminaire classification? <table border="1" data-bbox="922 625 1224 667"> <tr> <td>X</td> <td>0</td> <td>**C**</td> <td>180</td> </tr> </table>	X	0	**C**	180		
X	0	**C**	180				
11.	Is there the crossed wheeled bin (WEEE directive)? 						
Information to be provided with the luminaire (manufacturer instruction sheet)							
12.	Is the luminaire provided with instructions sheet containing all details which are necessary to ensure proper installation, use and maintenance?						
13.	Is there an indication that the replacement of batteries (if the battery is classified as “replaceable”) is needed when the self-contained luminaire no longer meets its rated duration of operation?						
14.	Are there details of test facilities incorporated in the luminaire or appropriate instructions if these test facilities are supplied separately?						
15.	Are there details of the rated emergency lumen output in the emergency mode?						
16.	Are there details of any device which changes the mode of operation?						
17.	Is there indication if the battery or the lamp are or not “replaceable” parts?						
PHYSICAL CHECKS							
18.	Are there any sharp edges, burrs, cutting traces, etc. which may damage the wire insulation?						
19.	Is the lampholder in compliance with the relevant standard? (refers to the lampholder check list)						
20.	Is the luminaire protected against accessibility to live part, after has been installed and wired as in normal use, and when it is opened as necessary for replacing lamps or starters?						

21.	In case the lamp is delivered with the luminaire is the lamp in conformity with the requirements for CE marking and with the applicable legislation? (lamp is to be considered as a separate product).		
22.	<p>In case of luminaire with earth connection (class I luminaire), are all metal part which are accessible in normal use, or when the luminaire is open for lamp replacement, connected to earth?</p> <p>Note: this is not necessary if the metal part is not close to live parts or to basic insulation.</p>		

Contact details of the competent market surveillance authority

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4. Summary check list for portable luminaires for general use including rechargeable luminaires

Combined nomenclature (CN) Code:

CN Code: 9405 20




Portable luminaires for general use including rechargeable luminaires

Name of the product.....



If any of the grey boxes (NO) has been ticked, there is a need to contact relevant market surveillance authority.

FORMAL REQUIREMENTS			
The conformity marking CE			
		YES	NO
1.	Is there the CE marking?		
2.	Is there the CE marking affixed visibly, legibly and indelibly: <ul style="list-style-type: none"> – on the product itself or – on the packaging? 		
Basic information and warnings			
<i>Marking on the products</i>			
3.	Is there the identification of the entity placing the product on the market? (producer's name or his trade mark, or authorised representative's or importer's identification)		
4.	Is there the model number or type reference?		
5.	Is there the rated voltage (V)? Luminaires for tungsten filament lamps shall be marked only if the rated voltage is different from 250 V.		
6.	Is there the rated Wattage (W)? Note: this is only for lamp replacement identification.		

7.	<p>Is there the symbol for class II  or class III  ?</p> <p>Class II symbol is required for luminaire to be connected to the mains supply network and provided without the earthing terminal or with plug without earthing contact.</p> <p>Class III symbol is required for luminaire to be supplied with voltage lower than 50V a.c. or 120 d.c.</p>		
8.	<p>Is there the crossed wheeled bin (WEEE directive)?</p>		
Information to be provided with the luminaire (manufacturer instruction sheet)			
9.	<p>Is the luminaire provided with instructions sheet containing all details which are necessary to ensure proper installation, use and maintenance?</p>		
10.	<p>Is the luminaire provided without the words "Emergency luminaire"?</p> <p>According to the standard EN 60598-2-22, only fixed and permanently connected luminaire may be identified as EMERGENCY LUMINAIRE. Portable luminaire with switch for switching-ON the lamp cannot be classified as Emergency Luminaire.</p>		
PHYSICAL CHECKS			
11.	<p>Are there any sharp edges, burrs, cutting traces, etc. which may damage the wire insulation?</p>		
12.	<p>Is there a cord anchorage to lock the supply cable in order to avoid any mechanical stress (pull and torque) on the internal connections?</p>		
13.	<p>Is the lampholder in compliance with the relevant standard? (refers to the lampholder check list)</p>		
14.	<p>Is the dimension and type of plug suitable for the country where the luminaire will be marketed?</p>		
15.	<p>Is the luminaire protected against accessibility to live part, after has been installed and wired as in normal use, and when it is opened as necessary for replacing lamps or starters?</p>		
16.	<p>In case the lamp is delivered with the luminaire, is the lamp in conformity with the requirements for CE marking and with the applicable legislation? (lamp is to be considered as a separate product).</p>		

Contact details of the competent market surveillance authority

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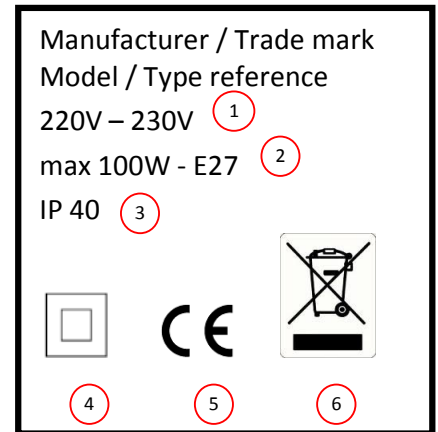
d. Detailed EU compliant requirements products sheets for luminaires

1. Detailed EU compliant requirements products sheet for fixed luminaires – wall, ceiling and recessed



1.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier).
- Type reference (model / article / serial number)
- Technical data:
 - Rated voltage (V): 220V... 230V(*) (not required on luminaires for incandescent lamp) (1)
 - Rated Wattage (W): 40W... 200W(*) (2)
 - Degree of protection IP XX (not required for IP20 luminaires) (3)
 - Symbols for classification of protection against electric shock: (required if the luminaire is not provided with the earthing terminal or plug without earthing contact) (4)
- CE marking (5)
- Crossed out wheeled bin (WEEE Directive) (**) (6)



Example of marking

(*) Indicative data

(**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market

1.2 Documentation to be provided with the product

- Manual or mounting Instruction leaflet translated in national language

1.3 Main aspects to be verified

- **Visual inspection** (see photographic Annex):
 - Identification data (see clause 1), if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer

- Luminaire shall be complete (in case of broken parts, check other product samples).
 - Protection of the supply cable against mechanical damages when it enters into the luminaire (sharp edges)
 - Presence of lampholder not in compliance with the relevant standard (live screw shell) for E14 and E27
 - Accessibility of live parts, in particular when the luminaire is opened for lamp replacement
 - Check if all metal part in contact with wiring, provided with only one insulation, are connected to the earth circuit
- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
 - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 4 and 5))
- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaries on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites
- **Inspection of lamps delivered together with the luminaire:**
 - In case lamps are included in the luminaires package, these lamps have to be compliant with applicable legislation. See technical sheet on lamps
 - Furthermore from 2014-03-01, if the luminaire is placed on the market in a packaging for end-users, the original lamp packaging shall be included in the luminaire's packaging. I the information for energy label of the lamps (required by Regulation (EU) 874/2012) must be present inside or outside of the luminaire packaging

1.4 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES

ECODESIGN	Directive 2009/125/EC		
	Regulation (EC) 245/2009 + (EU) 347/2010 (3)	YES	YES
	Regulation (EU) 1194/2012 (4)	YES	YES
ENERGY LABELLING (6)	Directive 2010/30/EC		
	Regulation 874/2012 (5)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. Lamp is a finished product which has to comply itself with the directive

(3) Only for luminaires for HID or fluorescent lamps without integrated ballast

(4) Applicable:

- From 1st September 2013 to LED luminaires
- From 1st September 2014 to luminaires for tungsten filament lamps and retrofit (only for compatibility requirements as in 2.3 of Annex III – see also Annex IV clause 3)

(5) Applicable from 1st March 2014

(6) Applicable only for luminaires intended to be marketed to end-users

1.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year)(*) EN 60598-2-1:(year) or EN 60598-2-2:(year) EN 62493 (**)
ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

(*) Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp)

(**) Lighting equipment without electronic control gear is deemed to comply with the requirements without testing. All kind of ignitors, starters, switches, dimmers and sensors are not considered as electronic control gear.

ANNEX

VISUAL INSPECTIONS



Live screw shell in the lampholder



Lampholder comply with the standard (screw shell not live)



Example of metal part not connected to earth



Example of metal part not connected to earth



Wires with single insulation shall not touch metallic parts not earthed, and shall not be accessible



The lampholder doesn't twist under a 2 Nm torque test



After the installation of the luminaire, the user shall not touch wiring with basic insulation, and wiring with basic insulation shall not touch accessible non earthed metallic part.

2. Detailed EU compliant requirements products sheet for luminaires for road and street lighting

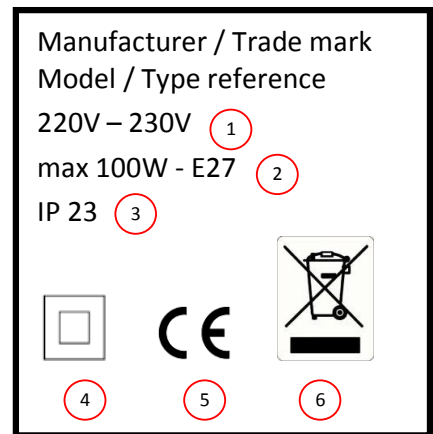


2.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier).
- Type reference (model / article / serial number)
- Technical data:
 - Rated voltage (V): 220V... 230V (*) (not required on luminaires for incandescent lamp) (1)
 - Rated Wattage (W): 40W... 200W (*) (2)
 - Degree of protection IP23 or higher (see description of IP code in annex) (3)
 - Symbols for classification of protection against electric shock: (required if the luminaire is not provided with the earthing terminal) (4)
- CE marking (5)
- Crossed out wheeled bin (WEEE Directive) (**) (6)

(*) Indicative data

(**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.



Example of marking

2.2 Information to be provided with the product

- Marking required by ENERGY LABELLING OF HOUSEHOLD LAMPS (Directive 98/11/EC or Regulation (EU) 874/2012) (see annex for phase out according to Regulation (EC) n. 244/2009)
- Manual or mounting Instruction leaflet translated in national language, with at least the following information:
 - design attitude (normal operating position)
 - weight including control gear if any
 - overall dimensions
 - if intended for mounting more than 8 m above ground level, the maximum projected area subjected to wind force
 - suitability for use indoors
 - the torque setting in newton meters to be applied to any bolts or screws which fix the luminaire to its support

2.3 Main aspects to be verified

- **Visual inspection** (see photographic Annex):
 - Identification data (see clause 1); if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer
 - Luminaire shall be complete (in case of broken parts, check other product samples).
 - Protection of the supply cable against mechanical damages when it enters into the luminaire (sharp edges)
 - Presence of cord anchorage to protect the internal connection against pull and torque of the supply cord
 - Presence of lampholder not in compliance with the relevant standard (live screw shell) for E27
 - Accessibility of live parts, in particular when the luminaire is open for lamp replacement

- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
 - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 4 and 5)

- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaires on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites

- **Inspection of lamps delivered together with the luminaire:**
 - In case lamps are included in the luminaires package, these lamps have to be compliant with applicable legislation. See technical sheet on lamps

2.4 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO

RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation (EC) 245/2009 + (EU) 347/2010 (3)	YES	YES
	Regulation (EU) 1194/2012 (4)	YES	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c.

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. Lamp is a finished product which has to comply itself with the directive.

(3) Only for luminaires for HID or fluorescent lamps without integrated ballast

(4) Applicable:

- From 1st September 2013 to LED luminaires
- From 1st September 2014 to luminaires for tungsten filament lamps and retrofit (only for compatibility requirements as in 2.3 of Annex III – see also Annex IV clause 3)

2.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year) (*) EN 60598-2-3:(year) EN 62493 (**)
ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

(*) Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp)

(**) Lighting equipment without electronic control gear is deemed to comply with the requirements without testing. All kind of ignitors, starters, switches, dimmers and sensors are not considered as electronic control gear.

ANNEX
Degrees of protection IP

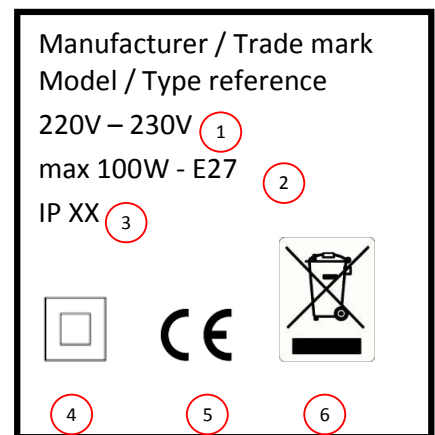
First characteristic numeral	Short description	Second characteristic numeral	Short description
0	Non-protected	0	Non-protected
1	Protected against solid objects greater than 50 mm	1	Protected against dripping water
2	Protected against solid objects greater than 12 mm	2	Protected against dripping water when tilted up to 15°
3	Protected against solid objects greater than 2,5 mm	3	Protected against spraying water
4	Protected against solid objects greater than 1,0 mm	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against heavy seas
		7	Protected against the effects of immersion
		8	Protected against submersion

3. Detailed EU compliant requirements products sheet for floodlights



3.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier)
- Type reference (model / article / serial number)
- Technical data:
 - Rated voltage (V): 220V... 230V (*) (not required on luminaries for incandescent lamp) (1)
 - Rated Wattage (W): 40W... 200W (*) (2)
 - Degree of protection IPXX (see description of IP code in annex) (3)
 - Symbols for classification of protection against electric shock: (required if the luminaire is not provided with the earthing terminal or plug with earthing contact) (4)
- CE marking (5)
- Crossed out wheeled bin (WEEE Directive) (**) (6)
 (*) Indicative data
 (**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.



Example of marking

3.2 Documentation to be provided with the product

- **Manual or mounting Instruction leaflet translated in national language, with at least the following information:**
 - Operating position, if not universal
 - Weight and overall dimensions of the floodlight
 - Maximum projected area of the floodlight
 - Range of mounting heights
 - Suitability for use indoors

3.3 Main aspects to be verified

- **Visual inspection** (see photographic Annex):
 - Identification data (see clause 1); if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer

- Luminaire shall be complete (in case of broken parts, check other product samples)
 - Protection of the supply cable against mechanical damages when it enters into the luminaire (sharp edges)
 - Presence of cord anchorage to protect the internal connection against pull and torque of the supply cord
 - Presence of lampholder not in compliance with the relevant standard (live screw shell) for E27
 - Accessibility of live parts, in particular when the luminaire is open for lamp replacement
- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
 - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 4 and 5))
- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaries on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites
- **Inspection of lamps delivered together with the luminaire:**
 - In case lamps are included in the luminaires package, these lamps have to be compliant with applicable legislation. See technical sheet on lamps
 - Furthermore from 01/03/2013, if the luminaire is placed on the market in a packaging for end-users, the original lamp packaging shall be included in the luminaire's packaging. I the information for energy label of the lamps (required by Regulation (EU) 874/2012) must be present inside or outside of the luminaire packaging

3.4 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		

	Regulation (EC) 245/2009 + (EU) 347/2010 (3)	YES	YES
	Regulation (EU) 1194/2012 (4)	YES	YES
ENERGY LABELLING (6)	Directive 2010/30/EC		
	Regulation 874/2012 (5)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. Lamp is a finished product which has to comply itself with the directive.

(3) Only for luminaires for HID or fluorescent lamps without integrated ballast

(4) Applicable:

- From 1st September 2013 to LED luminaires
- From 1st September 2014 to luminaires for tungsten filament lamps and retrofit (only for compatibility requirements as in 2.3 of Annex III – see also Annex IV clause 3)

(5) Applicable from 1st March 2014

(6) Applicable only for luminaires intended to be marketed to end-users

3.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year) (*) EN 60598-2-5:(year) EN 62493 (*)
ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

(*) Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp)

(**) Lighting equipment without electronic control gear is deemed to comply with the requirements without testing. All kind of ignitors, starters, switches, dimmers and sensors are not considered as electronic control gear.

ANNEX

Degrees of protection IP

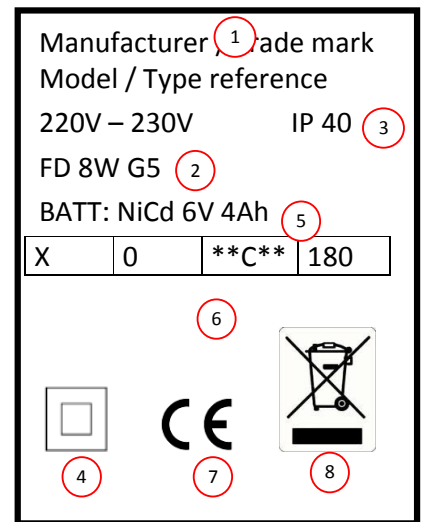
First characteristic numeral	Short description	Second characteristic numeral	Short description
0	Non-protected	0	Non-protected
1	Protected against solid objects greater than 50 mm	1	Protected against dripping water
2	Protected against solid objects greater than 12 mm	2	Protected against dripping water when tilted up to 15°
3	Protected against solid objects greater than 2,5 mm	3	Protected against spraying water
4	Protected against solid objects greater than 1,0 mm	4	Protected against splashing water
5	Dust-protected	5	Protected against water jets
6	Dust-tight	6	Protected against heavy seas
		7	Protected against the effects of immersion
		8	Protected against submersion

4. Detailed EU compliant requirements products sheet for emergency luminaires



4.1 Minimum information to be marked on the product

- Mark of origin (trade mark, or manufacturer's name or name of the responsible vendor/supplier).
- Type reference (model / article)
- Technical data:
 - Rated voltage (V): e.g. 220V... 230V (1)
 - Lamp data (rated Wattage and type (W) if replaceable : (2)
 - Degree of protection IP XX (not required for IP20 luminaires) (3)
 - Symbols for classification of protection against electric shock: (required if the luminaire is not provided with the earthing terminal) (4)
 - Type of battery and rated voltage (5)
- Details of the luminaire classification (6)
- CE marking (7)
- Crossed out wheeled bin (WEEE Directive) (**) (8)
 - (*) Indicative data
 - (**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.



Example of marking

Note: the above information to be marked on the product is not always gathered in the same place on the enclosure, and some can also be inside the product or could also be available through the manufacturer/distributor website.

4.2 Documentation to be provided with the product

- Manual or mounting Instruction leaflet translated into national language with at least the following information:
 - Mounting instructions
 - Indication that the replacement of batteries (if the battery is classified as “replaceable”) is needed when the self-contained luminaire no longer meets its rated duration of operation
 - Details of test facilities incorporated in the luminaire or appropriate instructions if these test facilities are supplied separately
 - Details of the rated emergency lumen output in the emergency mode
 - Details of any device which changes the mode of operation
 - Any normal preparation procedure for use of the luminaire
 - Indication if the battery or the lamp are or not “replaceable” parts

4.3 Main aspects to be verified

- **Visual inspection:**
 - Identification data (see clause 1): if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer
- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaries on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites

4.4 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File. The technical File is provided to local administration on request.

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
BATTERIES AND ACCUMULATORS AND WASTE BATTERIES AND ACCUMULATORS	2006/66/CE	NO	NO
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c.

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. A lamp is a finished product which has to comply itself with the Directive.

4.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity, available on request (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year)(*) EN 60598-2-22 (year) EN 62493 (year) (**)
ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

() Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp).*

*(**) Lighting equipment without electronic control gear is deemed to comply with the requirements without testing. All kind of ignitors, starters, switches, dimmers and sensors are not considered as electronic control gear.*

5. Detailed EU compliant requirements products sheet for portable rechargeable luminaires

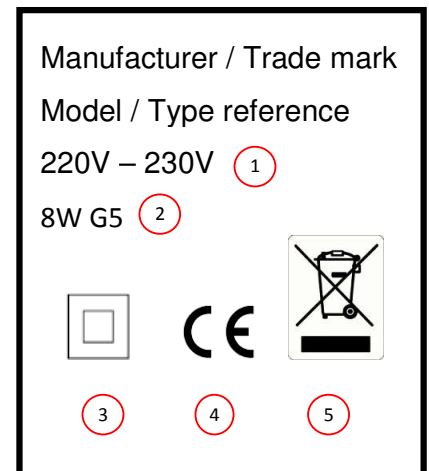


5.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier)
- Type reference (model / article)
- Technical data:
 - Rated voltage (V): 220V... 230V (*) (1)
 - Lamp data, with rated Wattage (W), if replaceable : 8W G5 (*) (2)
 - Symbols for classification of protection against electric shock: (required if the luminaire is provided with plug without earthing contact) (3)
 - Type of battery and rated voltage if replaceable
- CE marking (4)
- IP degree if declared greater than IP20
- Crossed out wheeled bin (WEEE Directive) (**) (5)

(*) Indicative data

(**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.



Example of marking

Note: the above information to be marked on the product is not always gathered in the same place on the enclosure, and some can also be inside the product.

5.2 Documentation to be provided with the product

- Manual or mounting instruction leaflet translated into national language.
- Classification to applicable standards.

- Attention: portable luminaire cannot be identified as “EMERGENCY LUMINAIRE” because, according to the standard EN 60598-2-22, only fixed and permanently connected luminaire may be identified as EMERGENCY LUMINAIRE. Portable luminaire with switch for switching-ON the lamp can not be classified as Emergency Luminaire.

5.3 Main aspects to be verified

- **Visual inspection:**
 - Identification data (see clause 1); if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer
 - Presence of CE marking on supply plug and cord
- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaries on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites.
- **Inspection of lamps delivered together with the luminaires:**
 - In case lamps are included in the luminaire package, these lamps have to be compliant with applicable legislation. See technical sheet for lamps.

5.4 Applicable legislation

- List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation (EC) 245/2009 + (EU) 347/2010 (3)	YES	YES
	Regulation (EU) 1194/2012 (4)	YES	YES

BATTERIES AND ACCUMULATORS AND WASTE BATTERIES AND ACCUMULATORS	2006/66/CE	NO	NO
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. Lamp is a finished product which has to comply itself with the directive

(3) Only for luminaires for HID or fluorescent lamps without integrated ballast

(4) Applicable:

- From 1st September 2013 to LED luminaires*
- From 1st September 2014 to luminaires for tungsten filament lamps and retrofit (only for compatibility requirements as in 2.3 of Annex III – see also Annex IV clause*

5.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity, available on request (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year) (*) EN 60598-2-8:(year) EN 62493 (year) (**)
ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)

() Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp).*

6. Detailed EU compliant requirements products sheet for table-floor portable luminaires

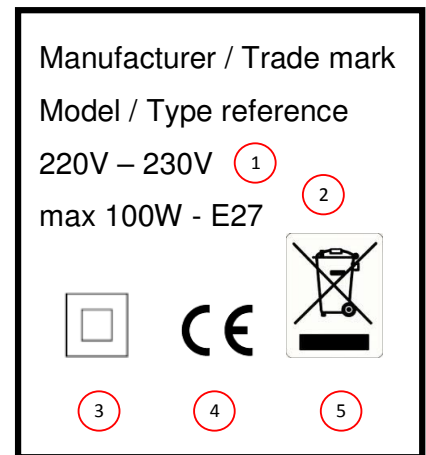


6.1 Minimum information to be marked on the product

- Mark of origin (trade mark, manufacturer's name or name of the responsible vendor/supplier)
- Type reference (model / article / serial number)
- Technical data:
 - Rated voltage (V): 220V... 230V (*) (not required on luminaires for incandescent lamp) (1)
 - Rated Wattage (W): 40W... 200W (*) (2)
 - Symbols for classification of protection against electric shock: (required if the luminaire is not provided with the earthing terminal or plug with earthing contact) (3)
- CE marking (4)
- Crossed out wheeled bin (WEEE Directive) (**) (5)

(*) Indicative data

(**) According to EN 50419 the rectangle below the crossed out wheeled bin is not required in case the manufacturer indicates the date of manufacture/put on the market.



Example of marking

6.2 Documentation to be provided with the product

- Manual or mounting Instruction leaflet translated in national language

6.3 Main aspects to be verified

- **Visual inspection** (see photographic Annex):
 - Identification data (see clause 1): if data are marked on a label, it shall be durable and legible: sticker or similar are accepted but not paper without protective tape or layer:
 - Luminaire shall be complete (in case of broken parts, check other product samples).
 - Protection of the supply cable against mechanical damages when it enters into the luminaire (sharp edges)
 - Dimension and type of plug according to relevant standards
 - Presence of cord anchorage to protect the internal connection against pull and torque of the supply cord
 - Presence of lampholder not in compliance with the relevant standard (live screw shell) for E14 and E27
 - Accessibility of live parts, in particular during lamp replacement

- **Inspection of documentation:**
 - Presence and completeness of instruction manual in the appropriate national language
 - Inspection of Declaration of Conformity (D.o.C). The D.o.C. shall contain all the reference to applicable legislation and applicable standards (see Applicable and Standards section (clauses 4 and 5)

- **Verification of importer/producer registration for WEEE:**
 - The importer, placing luminaries on the national market, shall be already registered to the National Register of WEEE Producers. A registration number should have been released and it can be verified on National WEEE Register websites

- **Inspection of lamps delivered together with the luminaire:**
 - In case lamps are included in the luminaire package, these lamps have to be compliant with applicable legislation. See technical sheet for lamps
 - Furthermore from 01/03/2014, if the luminaire is placed on the market in a packaging for end-users, the original lamp packaging shall be included in the luminaire's packaging. If not, the information for energy label of the lamps (required by Regulation (EU) 874/2012) must be present inside or outside of the luminaire packaging

6.4 Applicable legislation

List of applicable legislations and standards to be indicated in the Declaration of Conformity and Technical File:

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
LVD - LOW VOLTAGE DIRECTIVE (1)	2006/95/EC	YES	YES
EMC - ELECTROMAGNETIC COMPATIBILITY (2)	2004/108/EC	YES	YES

Directive/Regulation	Directive Number	Declaration of Conformity	Technical File
WEEE - WASTE FROM ELECTRIC AND ELECTRONIC EQUIPMENT	2012/19/UE (replaces 2002/96/EC)	NO	NO
RoHS - RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES	2011/65/EU (replaces 2002/95/EC)	YES	YES
ECODESIGN	Directive 2009/125/EC		
	Regulation (EC) 245/2009 + (EU) 347/2010 (3)	YES	YES
	Regulation (EU) 1194/2012 (4)	YES	YES
ENERGY LABELLING (6)	Directive 2010/30/EC		
	Regulation 874/2012 (5)	NO	YES
GENERAL PRODUCT SAFETY	2001/95/CE	NO	NO

(1) Low Voltage Directive is applicable to product designed for use with a voltage rating of between 50 and 1000V a.c. and 75 and 1500V d.c

(2) Not applicable to inherently benign equipment (e.g. without electronic devices). It should be noted that the use of lamp having electronic integrated ballast does not imply the applicability of EMC directive to the luminaire. Lamp is a finished product which has to comply itself with the directive

(3) Only for luminaires for HID or fluorescent lamps without integrated ballast

(4) Applicable:

- From 1st September 2013 to LED luminaires
- From 1st September 2014 to luminaires for tungsten filament lamps and retrofit (only for compatibility requirements as in 2.3 of Annex III – see also Annex IV clause 3)

(5) Applicable from 1st March 2014

(6) Applicable only for luminaires intended to be marketed to end-users

6.5 Applicable standards

Standards listed in the table below have to be all indicated in the Declaration of Conformity (legislation allows to indicate measures adopted to respect essential requirements as alternative to harmonized standards. This option is rarely used). The reference year of listed standards have to be indicated.

LOW VOLTAGE	EN 60598-1:(year) (*) EN 60598-2-4:(year) or EN 60598-2-7(year) EN 62493 (**)
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ELECTROMAGNETIC COMPATIBILITY	EN 55015:(year) EN 61000-3-2:(year) EN 61000-3-3:(year) EN 61547:(year)
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() Edition 2008 of EN 60598-1 does not require any photobiological safety evaluation for blue light hazard. This evaluation may be done according to EN 62471 and with IEC/TR 62778-2012. (Only applicable for LED and MH lamp)*

*(**) Lighting equipment without electronic control gear is deemed to comply with the requirements without testing. All kind of ignitors, starters, switches, dimmers and sensors are not considered as electronic control gear.*

ANNEX

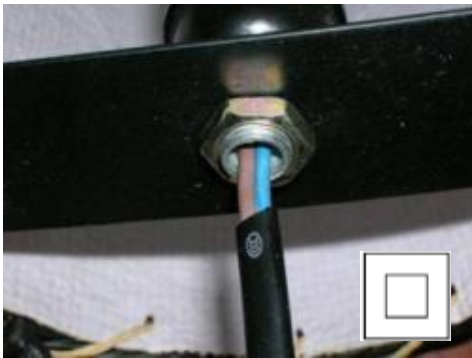
VISUAL INSPECTIONS



Missing cord anchorage for supply cable



Missing cord anchorage for supply cable
(knot is not allowed)



Missing of earth connection (if the luminaire is marked as class II insulation)



Accessible live parts during lamp replacement



Live screw shell in the lampholder



Lampholder comply with the standard
(screw shell not live)



Wires with single insulation shall not touch metallic parts not earthed, and shall not be accessible



The lampholder doesn't twist under a 2 Nm torque test



After the installation of the luminaire, the user shall not touch wiring with basic insulation, and wiring with basic insulation shall not touch accessible non earthed metallic part.

e. Disclaimer

This information is for general guidance on matters of interest only. While every attempt to ensure that the information has been obtained from reliable sources has been made, LightingEurope is not responsible for any errors or omissions or for the results obtained from the use of this information. All information is provided with no guarantee of completeness, accuracy, timeliness or of the results obtained from the use of this information, and without warranty of any kind, express or implied, including, but not limited to warranties of performance, merchantability and fitness for a particular purpose. In no event will LightingEurope, its related partnerships or corporations, or the partners, agents or employees thereof be liable to you or anyone else for any decision made or action taken in reliance on the information or for any consequential, special or similar damages, even if advised of the possibility of such damages.

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