Necessary content of Technical Documentation Directional lamps, LED and related equipment

Directional lamps, light emitting diode lamps (LED) and related equipment are covered by ecodesign requirements according to Regulation (EU) No 1194/2012.

The requirements only apply to lamps and related equipment as described and defined in Article 1 and 2 of the Regulation.

The documentation shall be produced before the lamp or related equipment is placed on the market.

The technical documentation shall be sufficient to enable assessment of the conformity of the lamp or related equipment with the requirements. In this respect it is important that test reports are included in the technical documentation.

Be aware that directional lamps and LED are also covered by the energy labelling Regulation (EU) No 874/2012.

Technical documentation for directional lamps, light emitting diode lamps and related equipment

Demands	How to comply		
Name and address of supplier	Company name and complete address.		
General description	Description of the model so that it is easily identified (model name and number, size etc.).		
List of applied standards	Applied measurement standards (harmonised standards and/or other standards).		
Identification and signature of the person empowered to bind the supplier	Name and signature of person responsible for the product.		
Product information directional lamps	The product information requirements do not apply to filament lamps not fullfilling the efficiacy requirments of stage 2 and LED modules when marketed as part of a luminaire from wich they are not intended to be removed by the end-user		
	Nominal useful luminous flux		
	Nominal life time of the lamp in hours (not longer than the rated life time)		
	Colour temperature(expressed in Kelvins, also graphically or in words)		
	Number of switching cycles before premature failure		
	• Warm-up time to reach 60% of the full light output (may be indicated as "instant full light" if less than 1 second)		
	• A warning if the lamp cannot be dimmed or can be dimmed only on specific dimmers, in latter case a list of compatible dimmers to be provided		
	 If designed to be used in non-standard conditions, information on those conditions Lamp dimensions in mm, length and largest diameter 		
	Nominal beam angle in degrees		
	 A warning that the lamp is not suitable for accent light, if beam angel is ≥90° and its useful luminous flux as defined in regulation Annex III point 1.1 is to be measured in a 120° cone 		
	• If the lamp cap is a standardised type also used with filament lamps, but the lamp's dimensions are different from the dimensions of the filament lamp(s) that the lamp is meant to replace, a drawing comparing the lamp's dimensions to the dimensions of the filament lamp(s) it replaces		

To be continued on the next page



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Be aware that the Regulation also covers lamp functionality requirements for nondirectinal LED.

Please see the separate guide with regards to energy labelling of lamps and luminaires.

Necessary content of Technical Documentation Directional lamps, LED and related equipment

	al documentation for directional lamps, tting diode lamps and related equipment	
Demands	How to comply	
	• An indication that the lamp is of a type listed in the first column of Table 6 may be displayed only if the luminous flux of the lamp in a 90° cone ($\Phi_{90^{\circ}}$) is not lower than the reference luminous flux indicated in Table 6 for the smallest wattage among the lamps of the type concerned. See more in annex III point 3.1.2. An equivalence claim involving the power of a replaced lamp type may be displayed only if the lamp type is listed in Table 6 and if the luminous flux of the lamp in a 90° cone ($\Phi_{90^{\circ}}$) is not lower than the corresponding reference luminous flux in Table 6 of the Regulation. See more in Annex III point 3.1.2.	
	Rated power	Rounded to first decimal place
	Rated useful luminous flux	
	Rated lamp life time	
	Lamp power factor	
	Lumen maintenance factor at the end of the nominal life (except for filament lamps) Starting time everyged in X X accords	
	Starting time expressed in X.X secondsColour rendering	
	Colour rendering Colour consistency (only for LEDs)	
	Rated peak intensity in candela (cd)	
	Rated beam angle	
	 Indication if it is intended for use in outdoor or industrial applications 	
	 Spectral power distribution in the range 180-800nm 	
	The intended purpose	
	State if it is not suitable for household room illumination	
If the lamp contains mercury	Lamp mercury content expressed as X.X mg	-
	 Instruction on how to clean up the lamp debris in case of lamp breakage and indication of website to consult for information 	
	 Recommendations on how to dispose of the lamp at its end of life 	
	To be continued on the next page	2
	COMMISSION REGULATION (EU) No 1194/2012 of 12 December 2012 implementing Directive 2009/125/ EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment	
	COMMISSION DELEGATED REGULATION (EU) No 874/2012 of 12 July 2012 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of electrical lamps and luminaires	

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Necessary content of Technical Documentation Directional lamps, LED and related equipment

Technical documentation for directional lamps, light emitting diode lamps and related equipment		
Demands	How to comply	
Information for LED replac- ing fluorescent lamps without integrated ballast	 A warning that the overall energy efficiency and light distribution of any installation that uses such lamps are determined by the design of the installation Data supporting claims that an LED lamp replaces a fluorescent lamp without integrated ballast of a particular wattage may be made only if: (i) The luminous intensity in any direction around the tube axis does not deviate by more than 25 % from the average luminous intensity around the tube, and 	
	(ii) The luminous flux of the LED lamp is not lower than the luminous flux of the fluo- rescent lamp of the claimed wattage. The luminous flux of the fluorescent lamp shall be obtained by multiplying the claimed wattage with the minimum luminous efficiency value corresponding to the fluorescent lamp in the Regulation	Be aware that all product informati for special purpos lamps shall state the intended spec purpose together with a warning th they are not suita for household roc illumination.
	(iii) The wattage of the LED lamp is not higher than the wattage of the fluorescent lamp it is claimed to replace	
Information for special purpose products	The chromaticity coordinates if the coordinates fall within the range mentioned in Annex I point 1.	
	The intended special purpose of the product. A list of the technical parameters that make the product design specific for the stated intended special purpose.	
Product information for equip- ment other than luminaires, de- signed for installation between the mains and the lamp	A warning if the equipment is not compatible with energy-saving lamps.	
Product information for control gear (for definition of control gear see Article 1 point 22 and 23)	 Indication that the product is intended to be used as a lamp control gear If applicable, the information that product may be operated in no-load mode 	
Combination of product settings	Specify at least one realistic combination of products settings and conditions in which the product complies with the Regulation.	
Copy of information	Copy of information that must be provided (according to the Regulation Annex III point 3).	

This guide presents the contents of the Regulations and is addressed to manufacturers, importers and others interested. The guide is not a substitution for the Regulations, and in any case of doubt, the Regulations are applicable. This guide is not legally binding as a binding interpretation can only be made by the EU court.

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