ANNEX V

Product information

1. Product information sheet

1.1. Pursuant to point 1(b) of Article 3, the supplier shall enter into the product database the information as set out in Table 3, including when the light source is a part in a containing product.

TABLE 3

Product information sheet

Supplier's name or trade mark:			
Supplier's address[a]:			
Model identifier:			
Type of light source:			
Lighting technology used:	[HL/LFL T5 HE/ LFL T5 HO/ CFLni/other FL/HPS/MH/ other HID/LED/ OLED/mixed/ other]	Non-directional or directional:	[NDLS/DLS]
Mains or non-mains:	[MLS/NMLS]	Connected light source (CLS):	[yes/no]
Colour-tuneable light source:	[yes/no]	Envelope:	[no/second/non-clear]
High luminance light source:	[yes/no]		
Anti-glare shield:	[yes/no]	Dimmable:	[yes/only with specific dimmers/no]
Product parameters			
Parameter	Value	Parameter	Value
General product parameters:			
Energy consumption in on-mode (kWh/1 000 h)	x	Energy efficiency class	[A/B/C/D/E/F/ G][b]
Useful luminous flux (Φ_{use}), indicating if it refers to the flux in a sphere (360°), in a wide cone (120°) or in a narrow cone (90°)	x in [sphere/wide cone/narrow cone]	Correlated colour temperature, rounded to the nearest 100 K, or the range of correlated colour temperatures, rounded to the	[x/x…x]

			nearest 100 K, that can be set	
On-mode power (P_{on}), expressed in W		x,x	Standby power (P_{sb}), expressed in W and rounded to the second decimal	x,xx
Networked standby power (P_{net}) for CLS, expressed in W and rounded to the second decimal		x,xx	Colour rendering index, rounded to the nearest integer, or the range of CRI-values that can be set	[x/x…x]
Outer dimensions without separate control gear, lighting control parts and non-lighting control parts, if any (millimetre)	Height	x	Spectral power distribution in the range 250 nm to 800 nm, at full-load	[graphic]
	Width	x		
	Depth	x		
Claim of equivalent power[c]		[yes/-]	If yes, equivalent power (W)	x
			Chromaticity coordinates (x and y)	0,xxx 0,xxx
Parameters for directional light sources:				
Peak luminous intensity (cd)		x	Beam angle in degrees, or the range of beam angles that can be set	[x/x…x]
Parameters for LED and OLED light sources:				
R9 colour rendering index value		x	Survival factor	x,xx
the lumen maintenance factor		x,xx		
Parameters for LED and OLED mains light sources:				
displacement factor (cos φ1)		x,xx	Colour consistency in McAdam ellipses	x
Claims that an LED light source replaces a fluorescent light source		[yes/-][d]	If yes then replacement claim (W)	x

without integrated ballast of a particular wattage.			
Flicker metric (Pst LM)	x,x	Stroboscopic effect metric (SVM)	x,x

a changes to these items shall not be considered relevant for the purposes of point 4 of Article 4 of Regulation (EU) 2017/1369.

b if the product database automatically generates the definitive content of this cell the supplier shall not enter these data.

c '-': not applicable;
'yes': An equivalence claim involving the power of a replaced light source type may be given only:
— for directional light sources, if the light source type is listed in Table 4 and if the luminous flux of the light source in a 90 ° cone ($\Phi_{90°}$) is not lower than the corresponding reference luminous flux in Table 4. The reference luminous flux shall be multiplied by the correction factor in Table 5. For LED light sources, it shall be in addition multiplied by the correction factor in Table 6;
— for non-directional light sources, the claimed equivalent incandescent light source power (rounded to 1 W) shall be that corresponding in Table 7 to the luminous flux of the light source.
The intermediate values of both the luminous flux and the claimed equivalent light source power (rounded to the nearest 1 W) shall be calculated by linear interpolation between the two adjacent values.

d '-': not applicable;
'yes': Claim that a LED light source replaces a fluorescent light source without integrated ballast of a particular wattage. This claim may be made only if:
— 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
— the luminous flux of the LED light source is not lower than the luminous flux of the fluorescent light source of the claimed wattage. The luminous flux of the fluorescent light source shall be obtained by multiplying the claimed wattage with the minimum luminous efficacy value corresponding to the fluorescent light source in Table 8; and
— the wattage of the LED light source is not higher than the wattage of the fluorescent light source it is claimed to replace.
The technical documentation file shall provide the data to support such claims.

TABLE 4

Reference luminous flux for equivalence claims

Extra-low voltage reflector type

Type	**Power (W)**	**Reference $\Phi_{90°}$ (lm)**
MR11 GU4	20	160
	35	300
MR16 GU 5.3	20	180
	35	300
	50	540
AR111	35	250
	50	390
	75	640
	100	785

Mains-voltage blown glass reflector type

Type	**Power (W)**	**Reference $\Phi_{90°}$ (lm)**
R50/NR50	25	90
	40	170

R63/NR63	40	180
	60	300
R80/NR80	60	300
	75	350
	100	580
R95/NR95	75	350
	100	540
R125	100	580
	150	1 000

Mains-voltage pressed glass reflector type

Type	**Power (W)**	**Reference $\Phi_{90°}$ (lm)**
PAR16	20	90
	25	125
	35	200
	50	300
PAR20	35	200
	50	300
	75	500
PAR25	50	350
	75	550
PAR30S	50	350
	75	550
	100	750
PAR36	50	350
	75	550
	100	720
PAR38	60	400
	75	555
	80	600
	100	760
	120	900

TABLE 5

Multiplication factors for lumen maintenance

Light source type	**Luminous flux multiplication factor**

Halogen light sources	1
Fluorescent light sources	1,08
LED light sources	1 + 0,5 × (1 - LLMF) where LLMF is the lumen maintenance factor at the end of the declared lifetime

TABLE 6

Multiplication factors for LED light sources

LED light source beam angle	Luminous flux multiplication factor
20° ≤ beam angle	1
15° ≤ beam angle < 20°	0,9
10° ≤ beam angle < 15°	0,85
beam angle < 10°	0,8

TABLE 7

Equivalence claims for non-directional light sources

Rated light source luminous flux Φ (lm)	Claimed equivalent incandescent light source power (W)
136	15
249	25
470	40
806	60
1 055	75
1 521	100
2 452	150
3 452	200

TABLE 8

Minimum efficacy values for T8 and T5 light sources

T8 (26 mm Ø)		T5 (16 mm Ø)High Efficiency		T5 (16 mm Ø)High Output	
Claimed equivalent power (W)	Minimum luminous efficacy (lm/W)	Claimed equivalent power (W)	Minimum luminous efficacy (lm/W)	Claimed equivalent power (W)	Minimum luminous efficacy (lm/W)
15	63	14	86	24	73
18	75	21	90	39	79
25	76	28	93	49	88
30	80	35	94	54	82

36	93			80	77
38	87				
58	90				
70	89				

For light sources that can be tuned to emit light at full-load with different characteristics, the values of parameters that vary with these characteristics shall be reported at the reference control settings.

If the light source is no longer placed on the EU market, the supplier shall put in the product database the date (month, year) when the placing on the EU market stopped.

2. **Information to be displayed in the documentation for a containing product**

If a light source is placed on the market as a part in a containing product, the technical documentation for the containing product shall clearly identify the contained light source(s), including the energy efficiency class.

If a light source is placed on the market as a part in a containing product, the following text shall be displayed, clearly legible, in the user manual or booklet of instructions:

This product contains a light source of energy efficiency class <X>,

where <X> shall be replaced by the energy efficiency class of the contained light source.

If the product contains more than one light source, the sentence can be in the plural, or repeated per light source, as suitable.

3. **Information to be displayed on the supplier's free access website:**

(a) The reference control settings, and instructions on how they can be implemented, where applicable;

(b) Instructions on how to remove lighting control parts and/or non-lighting parts, if any, or how to switch them off or minimize their power consumption;

(c) If the light source is dimmable: a list of dimmers it is compatible with, and the light source — dimmer compatibility standard(s) it is compliant with, if any;

(d) If the light source contains mercury: instructions on how to clean up the debris in case of accidental breakage;

(e) Recommendations on how to dispose of the light source at the end of its life in line with Directive 2012/19/EU of the European Parliament and of the Council[(1)].

4. **Information for products specified in point 3 of Annex IV**

For the light sources specified in point 3 of Annex IV, their intended use shall be stated on all forms of packaging, product information and advertisement, together with a clear indication that the light source is not intended for use in other applications.

The technical documentation file drawn up for the purposes of conformity assessment, in accordance with paragraph 3 of Article 3 of Regulation (EU) 2017/1369 shall list the technical parameters that make the product design specific to qualify for the exemption.

(**1**) Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE) (OJ L 197, 24.7.2012, p. 38).