

Texte zu EU-Regelungen zur umweltgerechten Produktgestaltung und zur Energieverbrauchskennzeichnung in der Beleuchtung – Zusammenstellung ^[1] des Umweltbundesamtes (UBA), Deutschland



Entwürfe vom November 2020
von Regelungsausschuß und Fachgespräch

**Entwurf für eine Änderungsverordnung zur
Produktgestaltung bei Beleuchtungsprodukten
und weiteren Produktgruppen**

– Arbeitshilfe: Textauszüge zu Beleuchtungsprodukten
mit ergänztem Inhaltsverzeichnis –

Hinweis: Bitte beachten Sie, daß der angehängte Text nur in Englisch verfaßt ist.

EN: Information on EU Lighting Regulations – Ecodesign and Energy Labelling –
Compilation ^[1] of the Federal Environment Agency (UBA), Germany

Drafts of November 2020
from Regulatory Committee and Technical Expert Meeting

**Draft for an amending regulation on the product design of lighting
products and other product groups**

– Extract concerning light sources (reg. 2019/2020/EU) –

FR: Informations sur réglementations de l'UE concernant l'éclairage – l'écoconception et
l'étiquetage énergétique – Compilation ^[1] de l'Agence Fédérale de l'Environnement
(UBA), Allemagne

Projets du novembre 2020
du comité de réglementation et de la réunion d'experts technique

**Projet pour une modification du règlement sur la conception des produits
pour des produits d'éclairage et autres groupes de produits**

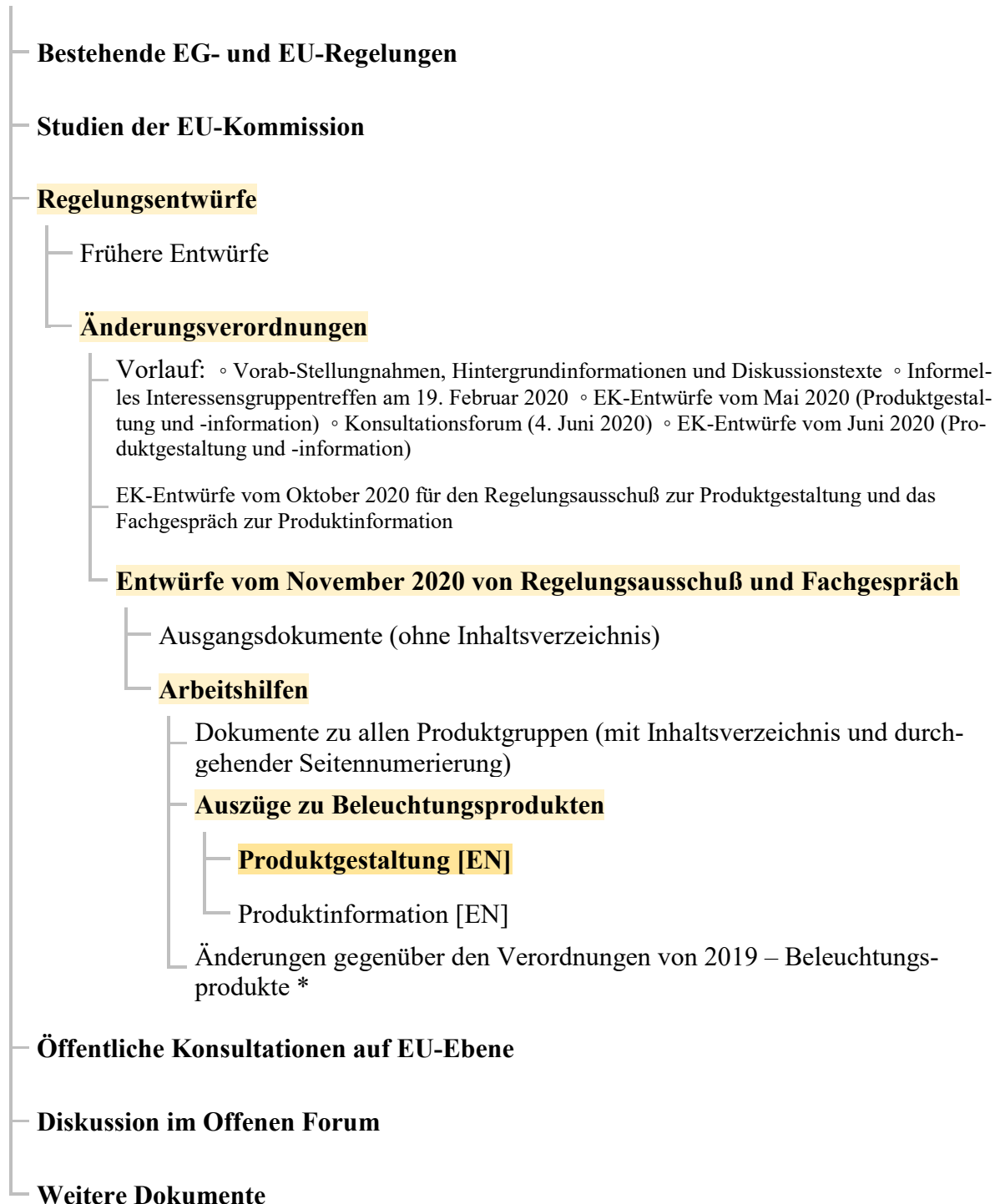
– Extrait concernant les produits d'éclairage (R. 2019/2020/UE) –

Indication : Veuillez noter que le présent texte n'est disponible qu'en anglais.

^[1] <https://www.eup-network.de/de/eup-netzwerk-deutschland/offenes-forum-eu-regelungen-beleuchtung/dokumente/texte/>

Texte im Offenen Forum

(abc = vorliegender Text)



* Stand 26. November 2020: Dieser Text steht noch nicht zur Verfügung.

Abkürzungen: ● EG = Europäische Gemeinschaft ● EK = EU-Kommission ● EU = Europäische Union

Documents in the Open Forum

(abc = text at hand)

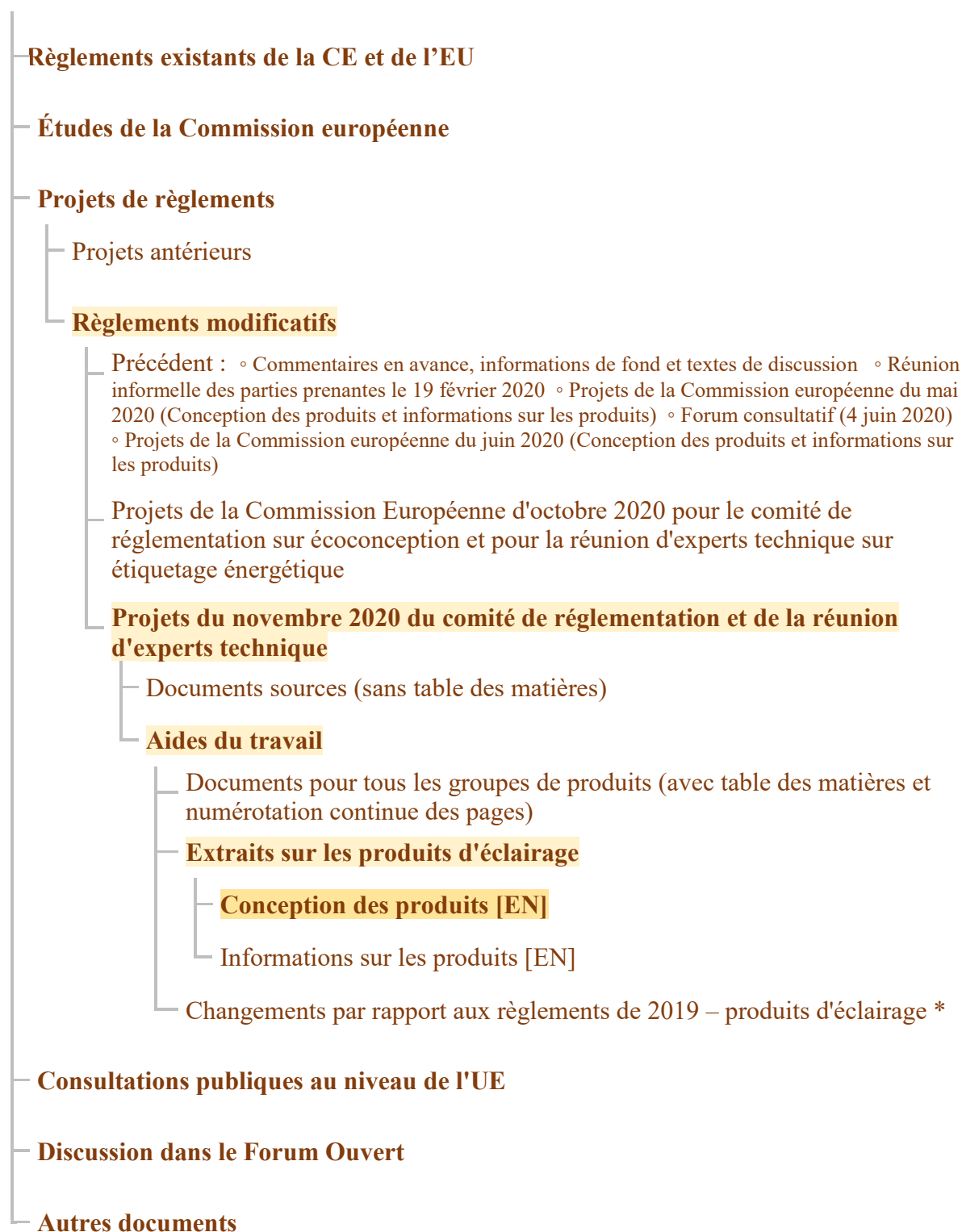


* Status as of 26 November 2020: This text is not yet available.

Abbreviations: ● EC = European Communities ● EU = European Union

Documents dans le forum ouvert

(abc = présent document)



* État au 26 novembre 2020 : Ce texte n'est pas encore disponible.

Abréviations : ● CE = Communauté européenne ● UE = Union européenne

Es folgt ein unveränderter Originaltext.

EN: The following is an unmodified original text.

FR: Ce qui suit est un texte original.

Offenes Forum EU-Regelungen zur Beleuchtung:
Entwürfe vom November 2020
von **Regelungsausschuß und Fachgespräch:**
Produktgestaltung – Auszug zu Beleuchtungsprodukten
– Arbeitshilfe von Christoph Mordziol, UBA –

EN:

Open Forum EU Policies on Lighting:
Drafts of November 2020
from **Regulatory Committee and Technical Expert Meeting:**
Product Design – Extract on lighting products
— Working aid by Christoph Mordziol, UBA —

FR :

Forum ouvert sur la politique européenne de l'éclairage :
Projets du novembre 2020
du comité de réglementation et de la réunion d'experts technique :
Conception des produits – Extrait sur les produits d'éclairage
— Aide de travail par Christoph Mordziol, UBA —

Die hier wiedergegebene Meinung muß nicht zwingend mit der Meinung des Umweltbundesamtes übereinstimmen. Bei Übersetzungen handelt es sich, sofern nicht anders gekennzeichnet, um nicht-autorisierte Übersetzungen, die aus Ingenieurssicht erstellt wurden. ◇ **EN:** This paper does not necessarily reflect the opinion or the policies of the German Federal Environment Agency. Unless otherwise indicated, translations are unauthorized translations that have been prepared from an engineering perspective. ◇ **FR :** L'opinion reproduite ici ne doit pas nécessairement coïncider avec l'avis de l'Agence Fédérale de l'Environnement. Sauf indication contraire, les traductions sont des traductions non autorisées qui ont été préparées dans une perspective d'ingénierie.

Vorbemerkungen.....	3
Auszug zu Beleuchtungsprodukten, das heißt zur Verordnung 2019/2020/EU	4
Anhang	15
Kontaktdaten	15

EN: Contents list

Preliminary remarks.....	3
Extract on lighting products, i.e. on Regulation 2019/2020/EU	4
Annex	15
Contact data.....	15

FR : Table des matières

Remarques préliminaires	3
Extrait sur les produits d'éclairage, c'est-à-dire le Règlement 2019/2020/UE	4
Annexe	15
Cordonnées.....	15

Vorbemerkungen ◇ Preliminary remarks ◇ Remarques préliminaires

Am 10. November 2020 verhandelten die EU-Mitgliedstaaten im Regelausschuss abschließend über einen Entwurf der EU-Kommission für eine Verordnung zur Änderung einer Reihe bestehender Verordnungen ^[1] und stimmten dem Ergebnis am 11. November 2020 mehrheitlich zu. Am 20. November veröffentlichte die EU-Kommission das Ergebnis ^[2]. Zum voraussichtlich 4. Dezember 2020 wird der Verordnungstext EU-Rat- und -Parlament vorgelegt, die drei Monate Zeit für eine Prüfung haben. Erheben sie keine Einwände, wird die Änderungsverordnung im EU-Amtsblatt veröffentlicht.

Ein Teil der Änderungen betrifft die Verordnung 2019/2020/EU ^[3] zur umweltfreundlichen Gestaltung von Beleuchtungsprodukten. Die vorliegende Arbeitshilfe gibt die Teile der Änderungsverordnung wieder, die die genannte Verordnung zu Beleuchtungsprodukten betreffen.

On 10 November 2020, the EU Member States finally negotiated in the Regulatory Committee on a draft of the EU Commission for a regulation amending a number of existing regulations ^[1] and approved the result by a majority on 11 November 2020. On 20 November, the Commission published the outcome ^[2]. The text of the regulation is expected to be presented to the EU Council and Parliament on 4 December 2020, which will have three months to consider it. If they raise no objections, the amending Regulation will be published in the EU's Official Journal.

Part of the amendments concerns Regulation 2019/2020/EU ^[3] on the environmentally friendly design of lighting products. The present working aid reflects the parts of the amendment regulation that relate to the aforementioned regulation on lighting products.

¹ https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_EK_2020_10_06_PG.pdf

² https://ec.europa.eu/info/sites/info/files/energy_climate_change_environment/draft_act_annexes_-_ed_omnibus_lw_-_after_vote_clean_-_dsclaimer.pdf

³ **DE:** https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2020_EU_kons_200224_DE.pdf
EN: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2020_EU_kons_200224_EN.pdf
FR: https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_VO_2019_2020_EU_kons_200224_FR.pdf

Gestaltung des Auszuges:

- Die wiedergegebenen Textteile sind unverändert.
- Ausgelassene Textteile sind durch (...) gekennzeichnet.
- Den wiedergegebenen Textteilen sind die selben Seitenzahlangaben vorangestellt, die auch in der vom Herausgeber erstellten Arbeitshilfe mit ergänztem Inhaltsverzeichnis und durchgehender Seitennumerierung zu finden sind ^[4]. Dies ist im folgenden beispielhaft gezeigt:

Design of the extract:

- The parts of the text reproduced are unchanged.
- Omitted parts of the text are marked with (...).

The reproduced parts of the text are preceded by the same page numbers as those given in the work aid prepared by the editor, which includes an additional table of contents and continuous page numbering ^[4]. This is shown in the following example:

----- 27/52 -----

Auszug zu Beleuchtungsprodukten, das heißt zur Verordnung 2019/2020/EU ◇ **Extract on lighting products, i.e. on Regulation 2019/2020/EU** ◇ **Extrait sur les produits d'éclairage, c'est-à-dire le Règlement 2019/2020/UE**

Please note: A term such as "Annex 1" may refer to both Annex I of the amending Regulation and Annex I of the Regulation being amended. In order to avoid misunderstandings in the table of contents, information relating to the amending Regulation is therefore set in black letters and information relating to a Regulation to be amended in blue letters. Example:

Annex I.....	13/52
(1) Annex I.....	13/52

Recitals.....2/52

(...)

⁴ https://www.eup-network.de/fileadmin/user_upload/Lichtquellen_Arbeitshilfe_02t09.pdf

Article 4	Amendments to Regulation (EU) 2019/2020	6/52
(1)	Article 2, point 4 – containing product	6/52
(2)	Article 4, point 1, the second paragraph	6/52
(3)	Article 7 – Circumvention and software updates	6/52
(4)	Article 12 – Transitional compliance equivalence	7/52
(5)	Annexes I to IV (→ Annex VI)	7/52

(...)

Article 9	Entry into force and application	11/52
-----------	--	-------

(...)

ANNEX IV	27/52
----------	-------	-------

(1)	Annex I point (52) – declared values	27/52
(2)	Annex II	27/52
(a)	Point 2, table 4	27/52
(b)	Point 3(d), point (1)	27/52
(3)	Annex III	27/52
(a)	Point 1, point (c)	27/52
(b)	Point 3	27/52
(1)	Point (s)	27/52
(2)	Point (w)	28/52
(3)	Point (x)	28/52
(c)	Point 5	28/52
(4)	Annex IV	28/52
(a)	First paragraph	28/52
(b)	Third paragraph	29/52
(c)	Point 1	29/52
(d)	Point 2(c)	29/52
(e)	Points 2(d) and (e)	29/52
(f)	Point 3	29/52
(g)	Point 4	29/52
(h)	Table 6	29/52

(...)



EUROPEAN
COMMISSION

Brussels, **XXX**
[...] (2020) **XXX** draft

COMMISSION REGULATION (EU) .../...

of XXX

amending Regulations (EU) 2019/424, (EU) 2019/1781, (EU) 2019/2019, (EU) 2019/2020, (EU) 2019/2021, (EU) 2019/2022, (EU) 2019/2023 and (EU) 2019/2024 with regard to ecodesign requirements for servers and data storage products, electric motors and variable speed drives, refrigerating appliances, light sources and separate control gears, electronic displays, household dishwashers, household washing machines and household washer-dryers and refrigerating appliances with a direct sales function

(Text with EEA relevance)

This draft has not been adopted or endorsed by the European Commission. Any views expressed are the preliminary views of the Commission services and may not in any circumstances be regarded as stating an official position of the Commission.

COMMISSION REGULATION (EU) .../...**of XXX**

amending Regulations (EU) 2019/424, (EU) 2019/1781, (EU) 2019/2019, (EU) 2019/2020, (EU) 2019/2021, (EU) 2019/2022, (EU) 2019/2023 and (EU) 2019/2024 with regard to ecodesign requirements for servers and data storage products, electric motors and variable speed drives, refrigerating appliances, light sources and separate control gears, electronic displays, household dishwashers, household washing machines and household washer-dryers and refrigerating appliances with a direct sales function

(Text with EEA relevance)

THE EUROPEAN COMMISSION,

Having regard to the Treaty on the Functioning of the European Union,

Having regard to Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products¹, and in particular Article 15 thereof,

Whereas:

- (1) Directive 2009/125/EC empowers the Commission to set ecodesign requirements for energy-related products.
- (2) Provisions on the ecodesign of servers and data storage products, motors and variable speed drives, refrigerating appliances, light sources and separate control gears, electronic displays, household dishwashers, household washing machines and household washer-dryers, and refrigerating appliances with a direct sales function were established by Commission Regulations (EU) 2019/424², (EU) 2019/1781³, (EU) 2019/2019⁴, (EU) 2019/2020⁵, (EU) 2019/2021⁶, (EU) 2019/2022⁷,

¹ OJ L 285, 31.10.2009, p. 10.

² Commission Regulation (EU) 2019/424 of 15 March 2019 laying down ecodesign requirements for servers and data storage products pursuant to Directive 2009/125/EC of the European Parliament and of the Council and amending Commission Regulation (EU) No 617/2013 (OJ L 74, 18.3.2019, p. 46–66).

³ Commission Regulation (EU) 2019/1781 of 1 October 2019 laying down ecodesign requirements for electric motors and variable speed drives pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Regulation (EC) No 641/2009 with regard to ecodesign requirements for glandless standalone circulators and glandless circulators integrated in products and repealing Commission Regulation (EC) No 640/2009 (OJ L 272, 25.10.2019, p. 74).

⁴ Commission Regulation (EU) 2019/2019 of 1 October 2019 laying down ecodesign requirements for refrigerating appliances pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulation (EC) No 643/2009 (OJ L 315, 5.12.2019, p. 187).

⁵ Commission Regulation (EU) 2019/2020 of 1 October 2019 laying down ecodesign requirements for light sources and separate control gears pursuant to Directive 2009/125/EC of the European Parliament and of the Council and repealing Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012 (OJ L 315, 5.12.2019, p. 209).

⁶ Commission Regulation (EU) 2019/2021 of 1 October 2019 laying down ecodesign requirements for electronic displays pursuant to Directive 2009/125/EC of the European Parliament and of the Council,

(EU) 2019/2023⁸ and (EU) 2019/2024⁹ (thereafter the “amended Regulations”).

3/52

- (3) In order to avoid confusion for manufacturers and national market surveillance authorities about the values to be included in technical documentation, and in relation to verification tolerances, a definition of declared values should be added in the amended Regulations.
- (4) To improve the effectiveness and credibility of the product-specific Regulations and to protect consumers, products able to detect being tested and to automatically alter their performance in test conditions with the objective of reaching a more favourable level for any of the parameters specified in these Regulations or included in the technical documentation or included in any of the documentation provided should not be allowed to be placed on the market.
- (5) The relevant product parameters should be measured or calculated using reliable, accurate and reproducible methods. Those methods should take into account recognised state-of-the-art measurement methods including, where available, harmonised standards adopted by the European standardisation bodies, as listed in Annex I to Regulation (EU) No 1025/2012 of the European Parliament and of the Council¹⁰.
- (6) Products containing light sources from which these light sources cannot be removed for verification without damaging one or more of them, should be tested as light sources for compliance assessment and verification.

(...)

4/52

- (...)
- (10) Further amendments should be made to improve clarity and consistency amongst the Regulations.
- (11) The measures provided for in this Regulation were discussed by the Consultation Forum in accordance with Article 18 of Directive 2009/125/EC.

amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EC) No 642/2009 (OJ L 315, 5.12.2019, p. 241).

⁷ Commission Regulation (EU) 2019/2022 of 1 October 2019 laying down ecodesign requirements for household dishwashers pursuant to Directive 2009/125/EC of the European Parliament and of the Council amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EU) No 1016/2010 (OJ L 315, 5.12.2019, p. 267).

⁸ Commission Regulation (EU) 2019/2023 of 1 October 2019 laying down ecodesign requirements for household washing machines and household washer-dryers pursuant to Directive 2009/125/EC of the European Parliament and of the Council, amending Commission Regulation (EC) No 1275/2008 and repealing Commission Regulation (EU) No 1015/2010 (OJ L 315, 5.12.2019, p. 285).

⁹ Commission Regulation (EU) 2019/2024 of 1 October 2019 laying down ecodesign requirements for refrigerating appliances with a direct sales function pursuant to Directive 2009/125/EC of the European Parliament and of the Council (OJ L 315, 5.12.2019, p. 313).

¹⁰ Regulation (EU) No 1025/2012 of the European Parliament and of the Council of 25 October 2012 on European standardisation, amending Council Directives 89/686/EEC and 93/15/EEC and Directives 94/9/EC, 94/25/EC, 95/16/EC, 97/23/EC, 98/34/EC, 2004/22/EC, 2007/23/EC, 2009/23/EC and 2009/105/EC of the European Parliament and of the Council and repealing Council Decision 87/95/EEC and Decision No 1673/2006/EC of the European Parliament and of the Council.

- (12) Regulations (EU) 2019/424, (EU) 2019/1781, (EU) 2019/2019, (EU) 2019/2020, (EU) 2019/2021, (EU) 2019/2022, (EU) 2019/2023 and (EU) 2019/2024 should therefore be amended accordingly.
- (13) The measures provided for in this Regulation are in accordance with the opinion of the Committee established by Article 19 of Directive 2009/125/EC.

HAS ADOPTED THIS REGULATION:

Article 1

Amendments to Regulation (EU) 2019/424

(...)

6/52

(...)

Article 4

Amendments to Regulation (EU) 2019/2020

Regulation (EU) 2019/2020 is amended as follows:

- (1) In Article 2, point 4 is replaced by the following:
- ‘4. ‘containing product’ means a product containing one or more light sources, or separate control gears, or both, including, but not limited to, luminaires that can be taken apart to allow separate verification of the contained light source(s), household appliances containing light source(s), furniture (shelves, mirrors, display cabinets) containing light source(s).’;
- (2) In Article 4, point 1, the second paragraph is replaced by the following:
- ‘Manufacturers, importers or authorised representatives of containing products shall ensure that light sources and separate control gears can be removed without being permanently damaged for verification purposes by market surveillance authorities. The technical documentation shall provide instructions on how to do this.’;
- (3) Article 7 is replaced by the following:

7/52

Article 7

Circumvention and software updates

The manufacturer, importer or authorised representative shall not place on the market products designed to be able to detect they are being tested (for example, by recognising the test conditions or test cycle) and to react specifically by automatically altering their performance during the test with the aim of reaching a more favourable level for any of the parameters in the technical documentation or included in any documentation provided.

The energy consumption of the product and any of the other declared parameters shall not deteriorate after a software or firmware update when measured with the same test standard

originally used for the declaration of conformity, except with explicit consent of the end-user prior to the update. No performance change shall occur as a result of rejecting the update.

A software update shall never have the effect of changing the product's performance in a way that makes it non-compliant with the ecodesign requirements applicable for the declaration of conformity.';

(4) The following Article 12 is added:

Article 12

Transitional compliance equivalence

If no unit belonging to the same model or equivalent models was placed on the market before 1 July 2021, the units of models placed on the market between 1 July 2021 and 31 August 2021 which comply with the provisions of this regulation shall be considered compliant with the requirements of Commission Regulations (EC) No 244/2009, (EC) No 245/2009 and (EU) No 1194/2012.';

(5) Annexes I to IV are amended as set out in Annex IV to this Regulation.

Article 5

Amendments to Regulation (EU) 2019/2021

(...)

----- 11/52 -----

(...)

Article 9

Entry into force and application

This Regulation shall enter into force on the third day following that of its publication in the *Official Journal of the European Union*.

Article 1(3), Article 3(4), Article 5(6), Article 6(3), Article 7(4) and Article 8(3) shall apply from *[date – OP please insert date two months after entry into force]*. Article 2 and article 4(4) shall apply from 1 July 2021. Article 4(1), (2) and (5) shall apply from 1 September 2021.

This Regulation shall be binding in its entirety and directly applicable in all Member States.

Done at Brussels,

For the Commission

The President

Ursula VON DER LEYEN



EUROPEAN
COMMISSION

Brussels, XXX
[...] (2020) XXX draft

ANNEXES 1 to 8

ANNEXES

to the

COMMISSION REGULATION (EU) .../...

amending Regulations (EU) 2019/424, (EU) 2019/1781, (EU) 2019/2019, (EU) 2019/2020, (EU) 2019/2021, (EU) 2019/2022, (EU) 2019/2023 and (EU) 2019/2024 with regard to ecodesign requirements for servers and data storage products, electric motors and variable speed drives, refrigerating appliances, light sources and separate control gears, electronic displays, household dishwashers, household washing machines and household washer-dryers and refrigerating appliances with a direct sales function

ANNEX I

(...)

ANNEX IV

Annexes I to IV to Regulation (EU) 2019/2020 are amended as follows:

- (1) in Annex I point (52) is replaced by the following:
- ‘(52) ‘declared values’ means the values provided by the manufacturer, importer or authorised representative for the stated, calculated or measured technical parameters in accordance with Article 5, for the verification of compliance by the Member State authorities.’;
- (2) Annex II is amended as follows:
- (a) in point 2, table 4, the cells:

Stroboscopic effect for LED and OLED MLS	$SVM \leq 0,4$ at full-load (except for HID with $\Phi_{use} > 4$ klm and for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a $CRI < 80$)
--	---

are replaced by the following:

Stroboscopic effect for LED and OLED MLS	$SVM \leq 0,9$ at full-load (except for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a $CRI < 80$) From 1 September 2024: $SVM \leq 0,4$ at full-load (except for light sources intended for use in outdoor applications, industrial applications or other applications where lighting standards allow a $CRI < 80$)
--	---

’;

- (b) in point 3(d), point (1) is replaced by the following:
- ‘(1) The information specified in point 3(c)(1) of this Annex shall also be contained in the technical documentation file drawn up for the purposes of conformity assessment pursuant to Article 8 of Directive 2009/125/EC.’;

(3) Annex III is amended as follows:

(a) in point 1, point (c) is replaced by the following:

‘(c) in radiological and nuclear medicine installations that are subject to radiation safety standards as set out in Council Directive 2013/59/EURATOM

*;

* Council Directive 2013/59/Euratom of 5 December 2013 laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation (OJ L 13, 17.1.2014, p. 1).’;

(b) point 3 is amended as follows:

(1) point (s) is replaced by the following:

----- 28/52 -----

‘(s) incandescent light sources with blade contact-, metal lug-, cable-, litz wire-, metric thread-, pin base- or non-standard customised electrical interface, encasing made from quartz-glass tubes, specifically designed and exclusively marketed for industrial or professional electro-heating equipment (such as stretch blow-moulding process in PET-Industry, 3D-printing, photovoltaic and electronic manufacturing processes, drying or hardening of adhesives, inks, paints or coatings);’;

(2) point (w) is replaced by the following:

‘(w) light sources that

(1) are specifically designed and exclusively marketed for scene-lighting use in film-studios, TV-studios and locations, and photographic-studios and locations, or for stage-lighting use in theatres, during concerts or other entertainment events;

and that

(2) meet at least one of the following specifications:

- (a) LED with power ≥ 100 W and CRI > 90 ;
- (b) GES/E40, K39d socket with changeable Colour Temperature down to 1 800 K (undimmed), used with low voltage power supply;
- (c) LED with power ≥ 180 W and arranged to direct output to an area smaller than the light emitting surface;
- (d) Incandescent light source that is DWE type and has 650 W power, 120 V voltage and pressure screw terminal;
- (e) LED with power ≥ 100 W that allows the user to set different correlated colour temperatures for the emitted light;
- (f) LFL T5 with G5 cap with CRI ≥ 85 and CCT 2 900, 3 000, 3 200, 5 600 or 6 500 K.’;

(3) the following point (x) is added:

‘(x) incandescent DLS fulfilling all of the following conditions: E27 cap, clear envelope, power ≥ 100 W and ≤ 400 W, CCT $\leq 2 500$ K,

specifically designed and exclusively marketed for infrared heating’;

(c) the following point 5 is added:

‘5. Light sources specifically designed and exclusively marketed for use in products in the scope of Commission Regulations 2019/2023, 2019/2022, 932/2012 and 2019/2019, shall be exempt from the requirements regarding lumen maintenance factor and survival factor set out in point 2 Table 4 of Annex II, and from the lifetime information requirement set out in point 3(b)(1)(e) of Annex II.’;

(4) Annex IV is amended as follows:

(a) the first paragraph is replaced by the following:

‘The verification tolerances defined in this Annex relate only to the verification by Member State authorities of the declared values and shall not be used by the manufacturer, importer or authorised representative as an allowed tolerance to

----- 29/52 -----

establish the values in the technical documentation or in interpreting these values with a view to achieving compliance or to communicate better performance by any means.’;

(b) in the third paragraph, the words “When verifying” are replaced by “As part of verifying”;

(c) point 1 is replaced by the following:

‘1. The Member State authorities shall verify one single unit of the model for points 2(a), 2(b), 2(d) and 2(e) of this Annex.

The Member State authorities shall verify 10 units of the light source model or 3 units of the separate control gear model. The verification tolerances are laid down in Table 6 of this Annex.’;

(d) point 2(c) is replaced by:

‘(c) when the authorities of the Member State test the units of the model, the determined values comply with the respective verification tolerances as given in Table 6 of this Annex, where ‘determined value’ means the arithmetic mean over the tested units of the measured values for a given parameter or the arithmetic mean of parameter values calculated from measured values; and’;

(e) points 2(d) and (e) are added:

‘(d) when the Member State authorities check the unit of the model, they find that the manufacturer, importer or authorised representative has put in place a system that complies with the requirements in the second paragraph of Article 7; and

(e) when the Member State authorities check the unit of the model, it complies with the requirement in the third paragraph of Article 7 and the information requirements in point 3 of Annex II.’;

(f) point 3 is replaced by the following:

‘3. If the results referred to in point 2(a), (b), (c), (d) or (e) are not achieved, the model and all equivalent models shall be considered not to comply with this Regulation.’

(g) point 4 is replaced by the following:

‘(4) The Member State authorities shall provide all relevant information to the authorities of the other Member States and to the Commission without delay after a decision being taken on the non-compliance of the model according to points 3 or the second paragraph of this Annex.’;

(h) in Table 6, the verification tolerance for “Flicker [Pst LM] and stroboscopic effect [SVM]” is replaced by the following:

‘The determined value shall not exceed the declared value by more than 0,1.’.

30/52

ANNEX V

(...)

52/52

Anhang ◇ Annex ◇ Annexe

Kontaktdaten

Christoph Mordziol
Umweltbundesamt (UBA)
Fachgebiet V 1.4 –
Energieeffizienz

Wörlitzer Platz 1
06844 Dessau-Roßlau
Deutschland

+49 - 340 / 21 03-22 57
christoph.mordziol@uba.de

<https://www.umweltbundesamt.de/themen/klima-energie/energiesparen/licht>

Contact data

Christoph Mordziol
Federal Environment Agency
Section V 1.4 – Energy
Efficiency

Germany

Cordonnées

Christoph Mordziol
Agence Fédérale de
l'Environnement
Unité V 1.4 – Efficacité
Énergétique

Allemagne

(Datei „ErP-RL_2020-11-26-1943_n_43-VO-LqGes_UBA-Arbeitshilfe_2-t11-RA-Ew-2020-11_v03b_EP“)