

Commission Implementing Decision (EU) 2020/1222 of 24 August 2020 on the approval of efficient vehicle exterior lighting using light emitting diodes as an innovative technology for reducing CO<sub>2</sub> emissions from internal combustion engine powered light commercial vehicles with regard to NEDC conditions pursuant to Regulation (EU) 2019/631 of the European Parliament and of the Council (Text with EEA relevance)

Article 1	Innovative technology
Article 2	Application for certification of CO <sub>2</sub> savings
Article 3	Certification of CO <sub>2</sub> savings
Article 4	Eco-innovation code
Article 5	Entry into force
	Signature

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## ANNEX

Methodology to determine the CO<sub>2</sub> savings of Efficient Exterior LED Lighting under NEDC for use in light commercial vehicles

1. INTRODUCTION
2. TESTING CONDITIONS
  - 2.1. Test equipment
  - 2.2. Determination of the power savings
    - 2.2.1. Measurement of the power consumption
    - 2.2.2. Calculation of the power savings
3. CALCULATION OF THE CO<sub>2</sub> SAVINGS
4. CALCULATION OF THE UNCERTAINTY OF THE CO<sub>2</sub> SAVINGS
  - 4.1. General methodology
5. ROUNDING
6. CHECK AGAINST THE MINIMUM CO<sub>2</sub> SAVINGS THRESHOLD
7. CERTIFICATION OF THE CO<sub>2</sub> SAVINGS

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**Changes to legislation:** There are outstanding changes not yet made to Commission Implementing Decision (EU) 2020/1222. Any changes that have already been made to the legislation appear in the content and are referenced with annotations. (See end of Document for details) [View outstanding changes](#)

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- (1) [OJ L 111, 25.4.2019, p. 13.](#)
- (2) Commission Implementing Regulation (EU) No 427/2014 of 25 April 2014 establishing a procedure for the approval and certification of innovative technologies for reducing CO<sub>2</sub> emissions from light commercial vehicles pursuant to Regulation (EU) No 510/2011 of the European Parliament and of the Council ([OJ L 125, 26.4.2014, p. 57](#)).
- (3) Regulation (EC) No 443/2009 of the European Parliament and of the Council of 23 April 2009 setting emission performance standards for new passenger cars as part of the Community's integrated approach to reduce CO<sub>2</sub> emissions from light-duty vehicles ([OJ L 140, 5.6.2009, p. 1](#)).
- (4) <https://circabc.europa.eu/sd/a/a19b42c8-8e87-4b24-a78b-9b70760f82a9/July%202018%20Technical%20Guidelines.pdf>
- (5) Commission Regulation (EC) No 692/2008 of 18 July 2008 implementing and amending Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information ([OJ L 199, 28.7.2008, p. 1](#)).
- (6) Commission Implementing Decision 2014/128/EU of 10 March 2014 on the approval of the light emitting diodes low beam module 'E-Light' as an innovative technology for reducing CO<sub>2</sub> emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 70, 11.3.2014, p. 30](#)).
- (7) Commission Implementing Decision (EU) 2015/206 of 9 February 2015 on the approval of the Daimler AG efficient exterior lighting using light emitting diodes as an innovative technology for reducing CO<sub>2</sub> emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 33, 10.2.2015, p. 52](#)).
- (8) Commission Implementing Decision (EU) 2016/160 of 5 February 2016 on the approval of the Toyota Motor Europe efficient exterior lighting using light emitting diodes as an innovative technology for reducing CO<sub>2</sub> emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 31, 6.2.2016, p. 70](#)).
- (9) Commission Implementing Decision (EU) 2016/587 of 14 April 2016 on the approval of the technology used in efficient vehicle exterior lighting using light emitting diodes as an innovative technology for reducing CO<sub>2</sub> emissions from passenger cars pursuant to Regulation (EC) No 443/2009 of the European Parliament and of the Council ([OJ L 101, 16.4.2016, p. 17](#)).
- (10) Directive 2007/46/EC of the European Parliament and the Council of 5 September 2007 establishing a framework for the approval of motor vehicles and their trailers, and of systems, components and separate technical units intended for such vehicles (Framework Directive) ([OJ L 263, 9.10.2007, p. 1](#)).
- (11) Commission Regulation (EU) 2017/1151 of 1 June 2017 supplementing Regulation (EC) No 715/2007 of the European Parliament and of the Council on type-approval of motor vehicles with respect to emissions from light passenger and commercial vehicles (Euro 5 and Euro 6) and on access to vehicle repair and maintenance information, amending Directive 2007/46/EC of the European Parliament and of the Council, Commission Regulation (EC) No 692/2008 and Commission Regulation (EU) No 1230/2012 and repealing Commission Regulation (EC) No 692/2008 ([OJ L 175, 7.7.2017, p. 1](#)).

**Changes to legislation:**

There are outstanding changes not yet made to Commission Implementing Decision (EU) 2020/1222. Any changes that have already been made to the legislation appear in the content and are referenced with annotations.

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**Changes and effects yet to be applied to :**

- Annex point 6 words substituted by S.I. 2020/1418 reg. 11(5)(a)
- Annex point 7 words substituted by S.I. 2020/1418 reg. 11(5)(b)
- Art. 2(1) words substituted by S.I. 2020/1418 reg. 11(2)
- Art. 3(1) words substituted by S.I. 2020/1418 reg. 11(3)(a)
- Art. 3(2) words substituted by S.I. 2020/1418 reg. 11(3)(b)
- Art. 3(3) words substituted by S.I. 2020/1418 reg. 11(3)(c)
- Art. 3(4) words substituted by S.I. 2020/1418 reg. 11(3)(d)
- Art. 3(5) words omitted by S.I. 2020/1418 reg. 11(3)(e)(ii)
- Art. 3(5) words substituted by S.I. 2020/1418 reg. 11(3)(e)(i)
- Art. 3(6) words substituted by S.I. 2020/1418 reg. 11(3)(f)(i)
- Art. 3(6) words substituted by S.I. 2020/1418 reg. 11(3)(f)(ii)
- Art. 5 omitted by S.I. 2020/1418 reg. 11(4)