

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2 AMENDEMENT 2

Lamps, light sources and LED packages for road vehicles – Performance requirements

Lampes, sources lumineuses et LED encapsulées pour véhicules routiers – Exigences de performances

[IEC 60810:2017/AMD2:2022](https://standards.iteh.ai/catalog/standards/sist/7c3a4108-8e02-48d0-9827-27d88cee557f/iec-60810-2017-amd2-2022)

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AMENDMENT 2
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(standards.iteh.ai)

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

LAMPS, LIGHT SOURCES AND LED PACKAGES FOR ROAD VEHICLES – PERFORMANCE REQUIREMENTS

AMENDMENT 2

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Amendment 2 to IEC 60810:2017 has been prepared by subcommittee 34A: Electric light sources, of IEC technical committee 34: Lighting.

The text of this Amendment is based on the following documents:

Draft	Report on voting
34A/2272/FDIS	34A/2277/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

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2 Normative references

Replace the existing reference to IEC 60809:2014 with the following new reference:

<https://standards.iteh.ai/catalog/standards/sist/7c3a4108-80b2-48d0-8027-27d88ccc357b/iec-60810-2017-amd2-2022>
IEC 60809:2021, *Lamps and light sources for road vehicles – Dimensional, electrical and luminous requirements*

3 Terms and definitions

3.5 initial luminous flux

Replace, in the note to entry, "IEC 60809:2014" with "IEC 60809:2021".

6 Requirements and test conditions for discharge lamps

Add, at the end of Subclause 6.8, the following new Subclause 6.9:

6.9 White colour groups

The discharge lamp shall be marked with the applicable colour group name or its abbreviation or its nominal CCT value as defined in Table 17. No marking is required for discharge lamps of the white colour group "Neutral white".

NOTE "Neutral white" is considered as the default white colour group for discharge lamps (e.g. in UN Resolution R.E.5).

These three white colour groups are defined with a nominal correlated colour temperature (CCT).

The white colour space, which is subdivided into these colour groups, is defined in UN Regulation No. 48 and in IEC 60809:2021, 4.4.

The three colour groups are separated by their x-coordinate value from the CIE x,y chromaticity coordinates according to CIE 015, as shown in Table 17 and Figure 14:

Table 17 – Three white colour groups, their abbreviation, nominal CCT and CIE x-coordinate boundary value for discharge lamps

White colour group	Abbreviation	Nominal CCT	CIE x-coordinate boundary value
Cool white	CW	5 700 K	$x \leq 0,345$
Neutral white	NW	4 500 K	$0,345 < x < 0,405$
Warm white	WW	3 500 K	$x \geq 0,405$

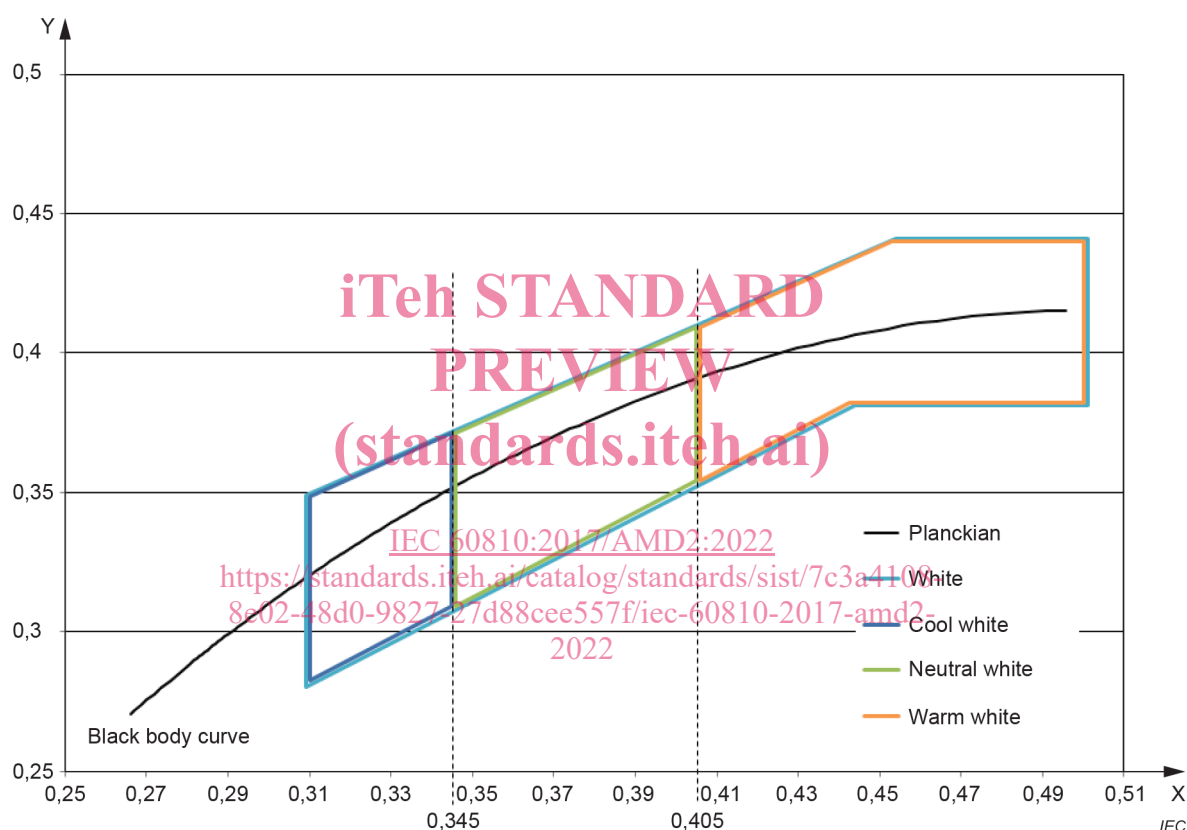


Figure 14 – Three white colour groups for discharge lamps

For the purpose of measuring the colour group of a discharge lamp, the CIE colour coordinates (x,y) shall be tested under the following conditions:

- Prior to the test, the discharge lamp shall be aged for 10 on/off switching cycles as specified in Table D.1.
- The discharge lamp shall be operated as specified in Clause D.2 and Clause D.3.
- The integral colour shall be measured after 30 min of operation.

7.2 UV radiation

Replace, in the first sentence, "IEC 60809:2014" with "IEC 60809:2021".

7.3 Luminous flux and colour maintenance

Table 5 – Minimum $L_{70}B_{10}$ values for replaceable LED light sources

Add, in Table 5, modified by Amendment 1, below the existing row "L1/6A, L1/6B", the following new rows:

PY21W/LED	1 000 ^{fl}
C5W/LEDK	2 500
R5W/LED	2 500
W5W/LEDK	2 500
WY5W/LED	1 000 ^{fl}
H11/LED/6	2 500

7.7 Mass

Table 9 – Maximum mass for LED light sources

Add, in Table 9, modified by Amendment 1, below the existing row "LR3, LR4, LR5, LW3, LW5, LY3, LY5, L1/6", the following new rows and footnote "a":

PY21W/LED	BAU15-3(110°)	25
R5W/LED	BA15-3(110°)	25
C5W/LEDK	SVX8.5	5
W5W/LEDK	WX2.1x9.5d	5
WY5W/LED	WX2.1x9.5d	5
H11/LED/6	PGJX19-2	80 ^a
^a The mass of the cable and accessories, if any, shall additionally be supported, to prevent additional forces to the holder system. These supporting measures shall be included in the installation instructions.		

7.16 White colour groups

Replace the third paragraph, added by Amendment 1, with the following new paragraph:

The white colour space, which is subdivided into these colour groups, is defined in UN Regulation No. 48 and in IEC 60809:2021, 4.4.

Table 16 – Three white colour groups, their abbreviation, nominal CCT and CIE x-coordinate boundary value

Replace the existing title of Table 16, added by Amendment 1, with the following new title:

Three white colour groups, their abbreviation, nominal CCT and CIE x-coordinate boundary value for LED light sources

Figure 13 – Three white colour groups

Replace the existing title of Figure 13, added by Amendment 1, with the following new title:

Three white colour groups for LED light sources

I.6 Colour measurement

Replace, in the second paragraph, "IEC 60809:2014" with "IEC 60809:2021".

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COMMISSION ÉLECTROTECHNIQUE INTERNATIONALE

**LAMPES, SOURCES LUMINEUSES ET LED ENCAPSULÉES POUR
VÉHICULES ROUTIERS – EXIGENCES DE PERFORMANCES****AMENDEMENT 2****AVANT-PROPOS**

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L'Amendement 2 à l'IEC 60810:2017 a été établi par le sous-comité 34A: Sources lumineuses électriques, du comité d'études 34 de l'IEC: Éclairage.

Le texte de cet Amendement est issu des documents suivants:

Projet	Rapport de vote
34A/2272/FDIS	34A/2277/RVD

Le rapport de vote indiqué dans le tableau ci-dessus donne toute information sur le vote ayant abouti à son approbation.

La langue employée pour l'élaboration de cet Amendement est l'anglais.