



SLOVENSKI STANDARD
SIST EN IEC 60810:2018/A1:2019

01-september-2019

Sijalke, viri svetlobe in okrovi svetlečih diod (LED) za cestna vozila - Tehnične zahteve - Dopolnilo A1 (IEC 60810:2017/A1:2019)

Lamps, light sources and LED packages for road vehicles - Performance requirements (IEC 60810:2017/A1:2019)

Lampen für Straßenfahrzeuge - Anforderungen an die Arbeitsweise (IEC 60810:2017/A1:2019)

Lampes, sources lumineuses et LED encapsulées pour véhicules routiers - Exigences de performances (IEC 60810:2017/A1:2019)

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Ta slovenski standard je istoveten z: **EN IEC 60810:2018/A1:2019**

ICS:

29.140.20	Žarnice z žarilno nitko	Incandescent lamps
43.040.20	Naprave za osvetlitev, signalizacijo in opozarjanje	Lighting, signalling and warning devices

SIST EN IEC 60810:2018/A1:2019 **en**

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EUROPEAN STANDARD

EN IEC 60810:2018/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2019

ICS 29.140.99

English Version

**Lamps, light sources and LED packages for road vehicles -
Performance requirements
(IEC 60810:2017/A1:2019)**

Lampes, sources lumineuses et LED encapsulées pour
véhicules routiers - Exigences de performances
(IEC 60810:2017/A1:2019)

Lampen für Straßenfahrzeuge - Anforderungen an die
Arbeitsweise
(IEC 60810:2017/A1:2019)

This amendment A1 modifies the European Standard EN IEC 60810:2018; it was approved by CENELEC on 2019-05-13. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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SIST EN IEC 60810:2018/A1:2019

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

EN IEC 60810:2018/A1:2019 (E)**European foreword**

The text of document 34A/2106/CDV, future IEC 60810/A1, prepared by SC 34A "Lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 60810:2018/A1:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-02-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2022-05-13

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

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The text of the International Standard IEC 60810:2017/A1:2019 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Replace the reference to "JESD22-A113F" with the following new reference:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
JESD22-A113H	-	Preconditioning of nonhermetic surface mount devices prior to reliability testing	-	-

[SIST EN IEC 60810:2018/A1:2019](https://standards.iteh.ai/catalog/standards/sist/7a8c5d65-afc2-4790-848b-42959a104d86/sist-en-iec-60810-2018-a1-2019)
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IEC 60810

Edition 5.0 2019-04

INTERNATIONAL STANDARD

NORME INTERNATIONALE



AMENDMENT 1
AMENDEMENT 1

**Lamps, light sources and led packages for road vehicles –
Performance requirements**
(standards.iteh.ai)

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

INTERNATIONAL
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FOREWORD

This amendment has been prepared by subcommittee 34A: Lamps, of IEC technical committee 24: Lamps and related equipment.

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

CDV	Report on voting
34A/2106/CDV	34A/2129/RVC

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

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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<https://standards.iteh.ai/catalog/standards/sist/7a8c5d65-afc2-4790-848b-42959a104d86/sist-en-iec-60810-2018-a1-2019>

Replace, throughout the document, all instances of "JESD22-A101C" with "JESD22-A101D".

Replace, throughout the document, all instances of "JESD22-A108D" with "JESD22-A108F".

Replace, throughout the document, all instances of "JESD22-A113F" with "JESD22-A113H".

Replace, throughout the document, all instances of "JESD22-B101B" with "JESD22-B101C".

Replace, throughout the document, all instances of "JESD22-B106D" with "JESD22-B106E".

Replace, throughout the document, all instances of "JESD22-B116:1998", "JESD22-B116" and "STD22-B116" with "JESD22-B116B".

2 Normative references

Add the following new references:

CIE 015:2018, *Colorimetry*

R.E.5, Consolidated Resolution on the common specification of light source categories

R.E.5 is published by UNECE under the reference ECE/TRANS/WP.29/1127 and is

available at the following address (website checked on 6 March 2019)
<http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html>

Delete the following two references:

Addendum 36: Regulation No. 37, Uniform provisions concerning the approval of filament lamps for use in approved lamp units of power-driven vehicles and of their trailers

Addendum 127: Regulation No. 128, Uniform provisions concerning the approval of light emitting diode (LED) light sources for use in approved lamp units on power-driven

Replace the reference to "JESD22-A113F" with the following new reference:

JESD22-A113H, *Preconditioning of nonhermetic surface mount devices prior to reliability testing*

5 Filament lamp data

Table 3 – Rated life values for continuous operation

Delete, under the "UN" column heading, all of the references to category sheet "R37", replace the column heading "UN" with "R.E.5", replace footnote "a" with a new footnote "a" and delete footnote "b", as follows:

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Table 3 – Rated life values for continuous operation

SIST EN IEC 60810:2018/A1:2019

Filament lamp data sheet number		Type	24 V					
IEC 60809 ^a	R.E.5	Category	Test V	B_3/h	T_c/h	Test V	B_3/h	T_c/h
Lamps for front lighting applications								
2310	H1	H1	13,2	150	400	28,0	90	250
2320	-	H2	13,2	90	250	28,0	90	250
2330	H3	H3	13,2	150	400	28,0	90	250
2120	H4	H4 (HB/LB)	13,2	125/250	250/500	28,0	100/200	200/400
2315	H7	H7	13,2	300	500	28,0	200	400
2365	H8	H8, H8B	13,2	400	800			
2370	H9	H9, H9B	13,2	250	500			
2375	H10	H10	13,2	800	1 600			
2380	H11	H11, H11B	13,2	350	600	28,0	300	600
2385	H12	H12	13,2	480	970			
-	H13	H13, H13A (HB/LB)	13,2	170/1 200	350/2 500			
-	H15	H15 (HB/DRL)	13,2	250/2 000	500/4 000	28,0	200/1 500	400/3 000
-	H16	H16, H16B	13,2	500	1 000			
-	H17	H17	13,2	100/200	200/400			
-	H18	H18	13,2	300	500			
-	H19	H19 (HB/LB)	13,2	125/250	250/500			
-	H20	H20	13,2	100	200			

Filament lamp data sheet number		Type	12 V			24 V		
IEC 60809 ^a	R.E.5	Category	Test V	B_3/h	T_c/h	Test V	B_3/h	T_c/h
3430	H27W	H27W/1 H27W/2	13,5	90	190			
2325	HB3	HB3/ HB3A	13,2	250	500			
2335	HB4	HB4/ HB4A	13,2	850	1 700			
2420	HIR2	HIR2	13,2	300	600			
2130	HS1	HS1 (HB/LB)	13,2	75/150	150/300			
2340	HS2	HS2	13,2	100	250			
-	PSX26 W	PSX26W	13,2	1 000	2 000			
2110	R2	R2 (HB / LB)	13,2	30/60	90/160			
2150	S1/S2	S2	13,2	50/100	100/200			
Lamps for signalling applications								
		C5W	13,5	350	750	28,0	120	350
3410	H6W	H6W, HY6W	13,5	350	700			
-	H10W	H10W/1	13,5	150	400			
-	H10W	HY10W/1	13,5	300	600			
3420	H21W	H21W	13,5	200	400	28,0	90	180
-	HY21W	HY21W	13,5	200	400	28,0	90	180
-	P13W	P13W	13,5	4 000	8 000			
-	P19W	P19W	13,5	1 000	2 000			
3310	P21W	P21W	13,5	120	320	28,0	60	160
3120	P21/4W	P21/4W	13,5	60/600	160/1 600	28,0	60/600	160/1 600
3110	P21/5W	P21/5W	13,5	60/600	160/1 600	28,0	60/600	160/1 600
-	P24W	P24W	13,5	750	1 500			
3315	P27W	P27W	13,5	550	1 320			
-	P27/7W	P27/7W	13,5	550/3 690	1 320/8 820			
-	PR21W	PR21W	13,5	120	320	28,0	60	160
-	PR21/5 W	PR21/5W	13,5	60/600	160/1 600			
-	P19W	PSY19W	13,5	1 200	2 400			
-	P24W	PSY24W	13,5	1 000	2 000			
-	P19W	PY19W	13,5	1 200	2 400			
3311	PY21W	PY21W	13,5	120	320	28,0	60	160
-	P24W	PY24W	13,5	1 000	2 000			
3141	PY27/7 W	PY27/7W	13,5	550/3 600	1 300/8 000			
3320	R5W	R5W	13,5	100	300	28,0	80	225
3330	R10W	R10W	13,5	100	300	28,0	80	225
-	R10W	RY10W	13,5	100	300			
3340	T4W	T4W	13,5	300	750	28,0	120	350
4310	W3W	W3W	13,5	500	1 500	28,0	400	1 100
4320	W5W	W5W	13,5	200	500	28,0	120	350

Filament lamp data sheet number		Type	12 V			24 V		
IEC 60809 ^a	R.E.5	Category	Test V	B_3/h	T_c/h	Test V	B_3/h	T_c/h
4340	W16W	W16W	13,5	250	700			
4321	W5W	WY5W	13,5	200	500			
4120	C21W	C21W	13,5	40	110			
-	WY16W	WY16W	13,5	250	700			
-	W21W	W21W	13,5	120	320			
-	W21/5 W	W21/5W	13,5	60/600	160/1 600			
-	WY21W	WY21W	13,5	120	320			
-	W15/5 W	W15/5W	13,5	120/600	320/1 600			
-	W10W	W10W	13,5	100	300			
-	WY10W	WY10W	13,5	100	300			

The values indicated are minimum requirements. Depending on some particular customers' specifications, different values may be obtained, i.e. shorter life/higher luminous flux or longer life/lower luminous flux. This shall be negotiated between filament lamp manufacturers and their customers.

If there is no direct contact between the customer and supplier, the information on deviation from recommended life time data shall be given on the package and/or in publicly available technical documentation.

^a If an R.E.5 sheet number is referenced, the IEC sheet number refers to the data sheet given in withdrawn IEC 60809:1995/AMD5:2012 and is given for information only.

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Table 4 – Rated luminous flux-maintenance values for continuous operation

Delete, under the "UN" column heading, all the references to category sheet "R37", replace the column heading "UN" with "R.E.5", replace footnote "e" with a new footnote "e" and delete footnote "f", as follows: