

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 3 AMENDEMENT 3

Lamps for road vehicles – Dimensional, electrical and luminous requirements

**Lampes pour véhicules routiers – Exigences dimensionnelles, électriques et
Lumineuses**

[IEC 60809:2014/AMD3:2019](https://standards.iteh.ai/catalog/standards/sist/39d0f59a-c144-4925-a506-4c65c3c72776/iec-60809-2014-amd3-2019)

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FOREWORD

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

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

CDV	Report on voting
34A/2105/CDV	34A/2128/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- withdrawn,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
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2 Normative references [4c65c3c72776/iec-60809-2014-amd3-2019](https://standards.iteh.ai/catalog/standards/sist/39d0f59a-c144-4925-a506-4c65c3c72776/iec-60809-2014-amd3-2019)

Add the following new reference:

R.E.5, United Nations Consolidated Resolution on the common specification of light source categories (R.E.5)

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 2018-12-06):
<http://www.unece.org/trans/main/wp29/wp29wgs/wp29gen/wp29resolutions.html>.

3 Terms and definitions

Replace the existing introductory paragraph with the following new text:

For the purposes of this document, the terms and definitions given in IEC 60050-845, IEC 60810 and R.E.5 as well as the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1

Replace the existing Note 1 to entry with the following new Note 1 to entry:

Note 1 to entry: Each specific designation, for example P21/5W, H4, D2R forms a category. Most of these designations are taken from R.E.5.

4.2 Lamp marking

Replace the existing NOTE 2 with the following new NOTE 2:

NOTE 2 An example of such an inscription is the approval mark or the approval code conferred by an administrative authority.

5.2 Lamp marking

Replace the existing NOTE 1 with the following new NOTE 1:

NOTE 1 An example of such an inscription is the approval mark or the approval code conferred by an administrative authority.

6.2 Light source marking

Replace the existing NOTE with the following new NOTE:

NOTE An example of such an inscription is the approval mark or the approval code conferred by an administrative authority.

6.5 Lamp dimensions

Replace the second paragraph, modified by Amendment 2, with the following new text:

The values of light centre lengths of Lx3A, Lx3B, Lx4A, Lx4B, Lx5A, Lx5B⁵, L1A/6 and L1B/6 are measured as follows.

8.1 General

Replace the second paragraph starting with "In the case", including the two dashed list items, with the following new text:

In the case where a reference is made from this standard to the lamp data sheet in R.E.5, the lamp data sheet in R.E.5 is shown.

8.2 List of specific lamp types

Replace the existing table, modified by Amendment 2, with the following new table which makes reference to sheets in R.E.5, and includes the addition of L1/6:

IEC sheet no. ^a	Sheet no. ^b in R.E.5	Category	Voltage V	Wattage W	Cap
60809-IEC-2110-	R2	R2	6 12 24	45/40 45/40 55/50	P45t P45t P45t
60809-IEC-2120-	H4	H4	12 24	60/55 75/70	P43t-38 P43t-38
60809-IEC-2125-	-	H6	12	65/55	PZ43t
60809-IEC-2130-	HS1	HS1	6 12	35/35 35/35	PX43t PX43t
60809-IEC-2132-	HS5	HS5	12	35/30	P23t

⁵ The x represents R, Y and W.

IEC sheet no. ^a	Sheet no. ^b in R.E.5	Category	Voltage V	Wattage W	Cap
60809-IEC-2135-	-	HB1	12	65/45	P29t
60809-IEC-2140-	S1/S2	S1	6 12	25/25 25/25	BA20d BA20d
60809-IEC-2150-	S1/S2	S2	6 12	35/35 35/35	BA20d BA20d
60809-IEC-2160-	-	S4	6 12	15/15 15/15	BAX15d BAX15d
60809-IEC-2305-	-	H5	12	50	PY43d
60809-IEC-2310-	H1	H1	6 12 24	55 55 70	P14.5s P14.5s P14.5s
60809-IEC-2315-	H7	H7	12 24	55 70	PX26d PX26d
60809-IEC-2320-	-	H2	6 12 24	55 55 70	X511 X511 X511
60809-IEC-2325-	HB3	HB3 HB3A	12 12	60 60	P20d P20d
60809-IEC-2330-	H3	H3	6 12 24	55 55 70	PK22s PK22s PK22s
60809-IEC-2335-	HB4	HB4 HB4A	12 12	51 51	P22d P22d
60809-IEC-2340-	HS2	HS2	6 12	15 15	PX13.5s PX13.5s
60809-IEC-2350-	-	HS3	6	2,4	PX13.5s
60809-IEC-2360-	S3	S3	6 12	15 15	P26s P26s
60809-IEC-2365-	H8	H8	12	35	PGJ19-1
60809-IEC-2370-	H9	H9	12	65	PGJ19-5
60809-IEC-2375-	H10	H10	12	42	PY20d
60809-IEC-2380-	H11	H11	12 24	55 70	PGJ19-2 PGJ19-2
60809-IEC-2385-	H12	H12	12	53	PZ20d
60809-IEC-2410-	HIR1	HIR1	12	65	PX20d
60809-IEC-2420-	HIR2	HIR2	12	55	PX22d
60809-IEC-3110-	P21/5W	P21/5W	6 12 24	21/5 21/5 21/5	BAY15d BAY15d BAY15d
60809-IEC-3120-	P21/4W	P21/4W	6 12 24	21/4 21/4 21/4	BAZ15d BAZ15d BAZ15d
60809-IEC-3130-	W21/5W	W21/5W	12	21/5	W3x16q
60809-IEC-3135-	WR21/5W	WR21/5W	12	21/5	WY3x16q
60809-IEC-3140-	PR27/7W	PR27/7W	12	27/7	W2.5x16q
60809-IEC-3141-	PY27/7W	PY27/7W	12	27/7	WX2.5x16q
60809-IEC-3310-	P21W	P21W	6 12 24	21 21 21	BA15s(BA15d) BA15s(BA15d) BA15s(BA15d)
60809-IEC-3311-	PY21W	PY21W	12 24	21 21	BAU15s BAU15s
60809-IEC-3315-	P27W	P27W	12	27	W2.5x16d

IEC sheet no. ^a	Sheet no. ^b in R.E.5	Category	Voltage V	Wattage W	Cap
60809-IEC-3320-	R5W	R5W	6 12 24	5 5 5	BA15s(BA15d) BA15s(BA15d) BA15s(BA15d)
60809-IEC-3330-	R10W	R10W	6 12 24	10 10 10	BA15s(BA15d) BA15s(BA15d) BA15s(BA15d)
60809-IEC-3340-	T4W	T4W	6 12 24	4 4 4	BA9s BA9s BA9s
60809-IEC-3410-	H6W	H6W	12	6	BAX9s
60809-IEC-3420-	H21W	H21W	12 24	21 21	BAY9s BAY9s
60809-IEC-3430	H27W	H27W/1 H27W/2	12 12	27 27	PG13 PGJ13
60809-IEC-4110-	C5W	C5W	6 12 24	5 5 5	SV8.5 SV8.5 SV8.5
60809-IEC-4120-	C21W	C21W	12	21	SV8.5
60809-IEC-4305-	W2.3W	W2.3W	12	2,3	W2x4.6d
60809-IEC-4310	W3W	W3W	6 12 24	3 3 3	W2.1x9.5d W2.1x9.5d W2.1x9.5d
60809-IEC-4320-	W5W	W5W	6 12 24	5 5 5	W2.1x9.5d W2.1x9.5d W2.1x9.5d
60809-IEC-4321-	W5W	WY5W	6 12 24	5 5 5	W2.1x9.5d W2.1x9.5d W2.1x9.5d
60809-IEC-4330-	W21W	W21W	12	21	W3x16d
60809-IEC-4335-	WY21W	WY21W	12	21	WX3x16d
60809-IEC-4340-	W16W	W16W	12	16	W2.1x9.5d
60809-IEC-5010-	T1.4W	T1.4W	12	1,4	P11.5d
60809-IEC-7110-	DxS	D1S D2S D3S D4S	12 12 12 12	35 35 35 35	PK32d-2 P32d-2 PK32d-5 P32d-5
60809-IEC-7120-	DxR	D1R D2R D3R D4R	12 12 12 12	35 35 35 35	PK32d-3 P32d-3 PK32d-6 P32d-6
60809-IEC-9310-	-	B1.13W	2,7	1,13	PX13.5s
60809-IEC-9610-	-	B0.6W	6	0,6	E10
60809-IEC-9620-	-	B2.4W	6	2,4	EP10/14x11
-	H6W	HY6W	12	6	BAZ9s
-	H8	H8B	12	35	PGJY19-1
-	H9	H9B	12	65	PGJY19-5
-	H10W	H10W/1 HY10W	12 12	10 10	BAU9s BAUZ9s
-	H11	H11B	12 24	55 70	PGJY19-2 PGJY19-2
-	H13	H13 H13A	12 12	55/60 55/60	P26.4t PJ26.4t
-	H14	H14	12	55/60	P38t

IEC sheet no. ^a	Sheet no. ^b in R.E.5	Category	Voltage V	Wattage W	Cap
-	H15	H15	12 24	15/55 20/60	PGJ23t-1 PGJ23t-1
-	H16	H16 H16B	12 12	19 19	PGJ19-3 PGJY19-3
-	H17	H17	12	35	PU43t-4
-	H18	H18	12	65	PY26d-1
-	H19	H19	12	55 / 60	PU43t-3
-	H20	H20	12	70	PY26d-6
-	H21W	HY21W	12 24	21 21	BAW9s BAW9s
-	HS5A	HS5A	12	45/40	PX23t
-	P13W	P13W PW13W	12 12	13 13	PG18.5d-1 WP3.3x14.5-7
-	PC16W	PC16W PCY16W PCR16W PW16W PWR16W PWY16W	12 12 12 12 12 12	16 16 16 16 16 16	PU20d-1 PU20d-2 PU20d-7 WP3.3x14.5-8 WP3.3x14.5-9 WP3.3x14.5-10
-	P19W	P19W PY19W PR19W PS19W PSY19W PSR19W PW19W PWR19W PWY19W	12 12 12 12 12 12 12 12 12	19 19 19 19 19 19 19 19 19	PGU20-1 PGU20-2 PGU20-5 PG20-1 PG20-2 PG20-5 WP3.3x14.5-1 WP3.3x14.5-2 WP3.3x14.5-5
-	PR21/5W	PR21/5W	12 24	21/5 21/5	BAW15d BAW15d
-	PR21W	PR21W	12 24	21 21	BAW15s BAW15s
-	PR21/4W	PR21/4W	12 24	21/4 21/4	BAU15d BAU15d
-	PY21/5W	PY21/5W	12	21/5	BA15d-3 (100°/130°).
-	R37-P24W	P24W PX24W PY24W PR24W PS24W PSX24W PSY24W PSR24W PW24W PWR24W PWY24W	12 12 12 12 12 12 12 12 12 12 12	24 24 24 24 24 24 24 24 24 24 24	PGU20-3 PGU20-7 PGU20-4 PGU20-6 PG20-3 PG20-7 PG20-4 PG20-6 WP3.3x14.5-3 WP3.3x14.5-4 WP3.3x14.5-6
-	PSX26W	PSX26W	12	26	PG18.5d-3
-	P27/7W	P27/7W	12	27/7	WU2.5x16
-	R5W	RR5W	6 12 24	5 5 5	BAW15s BAW15s BAW15s
-	R10W	RR10W RR10W RR10W RY10W RY10W RY10W	6 12 24 6 12 24	10 10 10 10 10 10	BAW15s BAW15s BAW15s BAU15s BAU15s BAU15s

IEC sheet no. ^a	Sheet no. ^b in R.E.5	Category	Voltage V	Wattage W	Cap
-	W5W	WR5W	6 12 24	5 5 5	W2.1x9.5d W2.1x9.5d W2.1x9.5d
-	W10W	W10W W10W WY10W WY10W	6 12 6 12	10 10 10 10	W2.1x9.5d W2.1x9.5d W2.1x9.5d W2.1x9.5d
-	W15/5W	W15/5W	12	15/5	WZ3x16q
-	W16W	WY16W	12	16	W2.1x9.5d
-	WP21W	WP21W WPY21W	12 12	21 21	WY2.5x16d WZ2.5x16d
-	WT21W	WT21W	12 24	21 21	WUX2.5x16d WUX2.5x16d
		WTY21W	12 24	21 21	WUY2.5x16d WUY2.5x16d
-	WT21/7W	WT21/7W	12	21/7	WZX2.5x16q
		WTY21/7W	12	21/7	WZY2.5x16q
		WTY21/7W	12	21/7	WZY2.5x16q
-	WY2.3W	WY2.3W	12	2,3	W2x4.6d
-	D5S	D5S	12	25	PK32d-7
-	D6S	D6S	12	25	P32d-1
-	D8S	D8S	12	25	PK32d-1
-	D8R	D8R	12	25	PK32d-8
-	D9s	D9s	12	27 / 35	PK32d-9
-	H17	H17	12	35	PU43t-4
-	PY21/5W	PY21/5W	12	21/5	BA15d-3 (100°/130°).
-	LR1	LR1	12	0,75/3,5	PGJ21t-1
-	LW2	LW2	12	1/12	PGJY50
-	L3	LR3A / LR3B	12	3	PGJ18,5d-1
		LW3A / LW3B	12	4	PGJ18,5d-24
		LY3A / LY3B	12	4	PGJ18,5d-15
-	LR4	LR4A / LR4B	12	3 / 075	PGJ18,5t-5
-	L5	LR5A / LR5B	12	3	PGJ18,5d-10
		LW5A / LW5B	12	6	PGJ18,5d-28
		LY5A / LY5B	12	6	PGJ18,5d-19
-	L1/6	L1A/6 / L1B/6	12	6	PGJ18,5d-29

^a If an R.E.5 sheet number is referenced in the second column, the IEC sheet number refers to a data sheet withdrawn with Amendment 5 of Edition 2 of IEC 60809:1995 and is given for information only.

^b The number in this column indicates the sheet number in R.E.5.

Annex D

D.5 Dimensions to be measured

Replace the first paragraph with the following new text:

Table D.1 states the dimensions to be measured. Values and tolerances are given on the relevant filament lamp data sheet R2 of R.E.5.

Annex E

E.5 Dimensions to be measured

Replace the first paragraph with the following new text:

Table E.1 states the dimensions to be measured. Values and tolerances are given on the relevant filament lamp data sheets H4, H17, H19 or HS1 of R.E.5.

Table E.1

Replace, in table footnote "c", added by Amendment 1, "UN regulation 37" with "R.E.5".

Annex I

Table I.1

Replace the existing table, modified by Amendment 2, with the following new Table I.1 which makes reference to data sheets in R.E.5:

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<https://standards.iteh.ai/catalog/standards/sist/39d0f59a-c144-4925-a506-4c65c3c72776/iec-60809-2014-amd3-2019>

Table I.1 – Overview of lamp types and their applications

Automotive lamps for headlights and/or fog lamps											
Filament lamps								Discharge lamps		LED light sources	
Double filament				Single filament							
Cars and trucks	Data sheet in R.E.5	Motorcycles and mopeds	Data sheet in R.E.5	Cars and trucks	Data sheet in R.E.5	Motorcycles and mopeds	Data sheet in R.E.5		Data sheet in R.E.5		Data sheet in R.E.5
H4	H4	S2	S1/S2	H1	H1	HS2	HS2	D1S	DxS	L1A/6	L1
H13 / H13A	H13	HS1	HS1	H3	H3			D2S	DxS	L1B/6	
		HS5	HS5	H7	H7			D3S	DxS		
H15	H15	H17 ^a	H17	H8 / H8B	H8			D4S	DxS		
H19	H19			H9 / H9B	H9			D1R	DxR		
				H10	H10			D2R	DxR		
				H11 / H11B	H11			D3R	DxR		
				H12	H12			D4R	DxR		
				H16 / H16B	H16			D5S	D5S		
				PSX26W _b	PSX26W			D8S	D8S		
				HB3	HB3			D8R	D8R		
				HB4	HB4			D9S	D9S		
				H27W	H27W						
				HIR2	HIR2						
				PSX24W _b	P24W						
				H18	H18						
				H20	H20						