

AS 6742.5:2024



STANDARDS
Australia



Cycles — Lighting and retro-reflective devices

Part 5: Lighting systems not powered by the cycle's movement (ISO 6742-5:2023, MOD)



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AS 6742.5:2024

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- Association of Accredited Certification Bodies
- AusCycling
- Australian Chamber of Commerce and Industry
- Australian Competition and Consumer Commission
- Bicycle Industries Australia
- Centre for Accident Research and Road Safety — Queensland
- Consumers' Federation of Australia
- Cycling and Walking Australia and New Zealand
- Monash University Accident Research Centre
- National Retail Association Australia
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Preface

This Standard was prepared by the Standards Australia Committee CS-110, Bicycles and Bicycle Accessories.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this document as an Australian Standard rather than an Australian/New Zealand Standard.

The objective of this document is to specify requirements and test methods for the performance of lighting systems not powered by the cycle's movement.

This document is an adoption with national modifications, and has been reproduced from ISO 6742-5:2023, *Cycles — Lighting and retro-reflective devices — Part 5: Lighting systems not powered by the cycle's movement*.

The modifications are additional requirements and are set out in [Appendix ZZ](#) which has been added at the end of the source text.

[Appendix ZZ](#) lists the modifications to ISO 6742-5:2023 for the application of this document in Australia.

As this document has been reproduced from an International document, the following apply:

- (a) In the source text “this part of ISO 6742” should read “this document”.
- (b) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

The terms “normative” and “informative” are used in Standards to define the application of the appendices or annexes to which they apply. A “normative” appendix or annex is an integral part of a Standard, whereas an “informative” appendix or annex is only for information and guidance.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 149, *Cycles*, Subcommittee SC 1, *Cycles and major sub-assemblies*.

This second edition cancels and replaces the first edition (ISO 6742-5:2015), which has been technically revised.

The main changes are as follows:

- terms and definitions integrated with ISO 6742-4;
- overall structure changes to clarify requirements and test methods;
- improvement of [4.4](#);
- improvement of [4.5](#);
- improvement of [Clause 8](#).

A list of all parts in the ISO 6742 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Australian Standard®

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1 Scope

This document is applicable to lighting systems used on cycles intended to be used on public roads and, especially, bicycles complying with ISO 4210[1] and ISO 8098[2].

This document specifies requirements and test methods for the performance of lighting systems not powered by the cycle's movement. It applies to lighting and light signalling devices complying with ISO 6742-1. Lighting systems include lighting and light signalling devices and power not supplied by cycle's movement such as battery.

2 Normative references

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.

ISO 6742-1:2023, *Cycles — Lighting and retro-reflective devices — Part 1: Lighting and light signalling devices*

ISO 6742-3:2023, *Cycles — Lighting and retro-reflective devices — Part 3: Installation and use of lighting and retro-reflective devices*

ISO 6742-4, *Cycles — Lighting and retro-reflective devices — Part 4: Lighting systems powered by the cycle's movement*

ISO 9227, *Corrosion tests in artificial atmospheres — Salt spray tests*

IEC 60086, — *Primary batteries*

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC 61951-2, *Secondary cells and batteries containing alkaline or other non acid electrolytes — Secondary sealed cells and batteries for portable applications — Part 2: Nickel-metal hydride*

IEC 61959, *Secondary cells and batteries containing alkaline or other non-acid electrolytes — Mechanical tests for sealed portable secondary cells and batteries*

IEC 61960, *Secondary cells and batteries containing alkaline or other non-acid electrolytes — Secondary lithium cells and batteries for portable applications*

IEC 62133, *Secondary cells and batteries containing alkaline or other non-acid electrolytes — Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6742-1 and ISO 6742-4 apply.

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

— ISO Online browsing platform: available at <https://www.iso.org/obp>