
**Cycles — Lighting and retro-reflective
devices —**

Part 3:
**Installation and use of lighting and
retro-reflective devices**

Cycles — Éclairage et dispositifs rétro réfléchissants —

*Partie 3: Installation et usage des éclairages et des dispositifs
rétro réfléchissants*



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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).

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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 6742-3:2015), which has been technically revised.

The main changes are as follows:

- [4.1](#) was changed from "Tolerances" to "Accuracy of measurement devices";
- improvement of [Clause 7](#).

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.

Introduction

The test method with power spectral density (PSD) (see [6.1.2.2](#)) reflects today's state of the art and should be preferred to the sine sweep vibration test (see [6.1.2.3](#)).

Cycles — Lighting and retro-reflective devices —

Part 3:

Installation and use of lighting and retro-reflective devices

1 Scope

This document is applicable to lighting and retro-reflective devices 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 the safety requirements and test methods of lighting and retro-reflective devices for fastening devices, control, (guidelines for maintenance), instructions for mounting and use.

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

IEC 60068-2-6, *Environmental testing — Part 2-6: Tests — Test Fc: Vibration (sinusoidal)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 6742-1 and the following 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>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

control

any part of a device directly or indirectly actuated by the cyclist which changes the state or functioning of the lighting devices

4 General

4.1 Accuracy of the measurement devices

Unless stated otherwise, the overall accuracy of the measurement devices in all parts of ISO 6742 shall be within tolerances given in [Table 1](#).