

INTERNATIONAL
STANDARD

ISO
6742-2

Third edition
2015-05-15

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

**Part 2:
Retro-reflective devices**

*Cycles — Dispositifs d'éclairage et dispositifs rétroréfléchissants —
Partie 2: Dispositifs rétroréfléchissants*



Reference number
ISO 6742-2:2015(E)

© ISO 2015



COPYRIGHT PROTECTED DOCUMENT

© ISO 2015, Published in Switzerland

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

Contents

	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General	2
4.1 Symbols and units used	2
4.2 Chronological order of tests (only for reflectors)	3
5 Photometrical requirements	4
5.1 Reflectors	4
5.2 Retro-reflective tyres	6
5.3 Retro-reflective spokes or spoke cases	7
6 Colorimetric requirements	8
7 Physical requirements	9
7.1 Reflectors	9
7.1.1 Construction	9
7.1.2 Test methods	9
7.2 Retro-reflective tyres	10
7.2.1 Form and location	10
7.2.2 Test methods	10
7.3 Retro-reflective spokes or spoke cases	12
7.3.1 Construction	12
7.3.2 Test methods	12
8 Photometric test	13
8.1 General	13
8.1.1 Instrumentation arrangement	13
8.1.2 Source of illumination	14
8.1.3 Receiver	14
8.1.4 Observation distance	14
8.1.5 Illuminance at the reflector	14
8.2 Reflectors	14
8.2.1 Principle	14
8.2.2 Reflector mount (or support)	14
8.2.3 Test area of reflector	15
8.2.4 Orientation of reflector	15
8.3 Retro-reflective tyres	15
8.3.1 Principle	15
8.3.2 Test method	15
8.4 Retro-reflective spokes or spoke cases	15
8.4.1 Testing assemblies for retro-reflective spokes and spoke cases	15
8.4.2 Test method	16
9 Colorimetric test	16
9.1 Instrumental measurements	16
9.2 Visual comparison	17
9.3 Use of methods	17
10 Marking	17
Bibliography	18