



BSI Standards Publication

Light and lighting — Commissioning of lighting systems in buildings — Explanation and justification of ISO/TS 21274

National foreword

This Published Document is the UK implementation of ISO/TR 5911:2023.

The UK participation in its preparation was entrusted to Technical Committee EL/1, Light and lighting applications.

A list of organizations represented on this committee can be obtained on request to its committee manager.

Contractual and legal considerations

This publication has been prepared in good faith, however no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability is or will be accepted by BSI in relation to the adequacy, accuracy, completeness or reasonableness of this publication. All and any such responsibility and liability is expressly disclaimed to the full extent permitted by the law.

This publication is provided as is, and is to be used at the recipient's own risk.

The recipient is advised to consider seeking professional guidance with respect to its use of this publication.

This publication is not intended to constitute a contract. Users are responsible for its correct application.

This publication is not to be regarded as a British Standard.

© The British Standards Institution 2023
Published by BSI Standards Limited 2023

ISBN 978 0 539 15565 5

ICS 91.160.10

Compliance with a Published Document cannot confer immunity from legal obligations.

This Published Document was published under the authority of the Standards Policy and Strategy Committee on 30 November 2023.

Amendments/corrigenda issued since publication

Date	Text affected
------	---------------

**Light and lighting – Commissioning
of lighting systems in buildings –
Explanation and justification of ISO/
TS 21274**

*Lumière et éclairage — Mise en service des systèmes d'éclairage dans
les bâtiments – Explication et justification de l'ISO/TS 21274*





COPYRIGHT PROTECTED DOCUMENT

© ISO 2023

All rights reserved. Unless otherwise specified, or required in the context of its implementation, 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
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

Contents

Page

Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General aspects	2
4.1 Benefits of commissioning for lighting systems.....	2
4.2 The need for commissioning.....	2
4.3 Content of commissioning for lighting systems.....	2
4.4 The acceptance of commissioning deliverables.....	3
5 Commissioning methods and selection	3
5.1 Classification of commissioning methods.....	3
5.2 Selection of commissioning methods.....	4
6 Roles and responsibilities	4
6.1 General.....	4
6.2 Owner or tenant.....	5
6.3 Design team.....	5
6.4 Contractors, subcontractors and suppliers.....	5
6.5 Commissioning team.....	6
7 Commissioning activities	6
7.1 General.....	6
7.2 Pre-commissioning phase.....	7
7.3 Installation phase.....	7
7.4 Field commissioning phase.....	8
7.5 Post occupancy phase.....	9
8 Documentation requirements of ISO/TS 21274	10
8.1 General.....	10
8.2 Commissioning plan.....	10
8.3 Commissioning specification.....	11
8.4 Commissioning observation inspection and calibration report.....	11
8.5 Issues log.....	12
8.6 Training plan.....	12
8.7 Commissioning report.....	13
9 Contractual completion	13
Annex A (informative) Example for commissioning specification of lighting systems	14
Bibliography	17

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 274, *Light and lighting*.

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 increasing use of solid-state lighting technology e.g. LED lighting, the growing scientific insight on the impact of light on humans and the diverse individual demands for lighting function bring a significant incentive for the application of lighting control. However, the resulting complexity of installed systems needs more professional skills to design, install, and maintain.

Commissioning is a very important measure that can be taken to guarantee the quality of lighting systems as close as possible to its design intent. ISO/TS 21274 specifies requirements for the commissioning of lighting systems in buildings to meet design specifications, including roles and responsibilities, commissioning activities, documentation requirements and system handover.

This document presents explanation and justification to support the correct understanding, use and national implementations of ISO/TS 21274.

