

TECHNICAL REPORT



Photobiological safety of lamps and lamp systems – Part 3: Guidelines for the safe use of intense pulsed light source equipment on humans

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEMS –

Part 3: Guidelines for the safe use of intense pulsed light source equipment on humans

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IEC/TR 62471-3, which is a technical report, has been prepared by IEC technical committee 76: Optical radiation safety and laser equipment.

The text of this technical report is based on the following documents:

Enquiry draft	Report on voting
76/497/DTR	76/505/RVC

Full information on the voting for the approval of this technical report can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

In this technical report, terms printed in SMALL CAPITALS are used as defined in Clause 3.

A list of all parts in the IEC 62471 series, published under the general title *Photobiological safety of lamps and lamp systems*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC web site 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- withdrawn,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
- amended.

A bilingual version of this publication may be issued at a later date.

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INTRODUCTION

This technical report describes possible adverse incidents that may occur in respect of the use of IPL devices and recommends measures to avoid them. Some of the described incidents represent serious adverse effects, ranging from cosmetically significant to physically or medically significant. Provided the IPL operator is appropriately educated and trained and the guidelines in this document are followed, the use of IPL in a cosmetic setting should be no more hazardous to the CLIENT or staff personnel than similar IPL interventions in medical settings.

PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEMS –

Part 3: Guidelines for the safe use of intense pulsed light source equipment on humans

1 Scope and object

1.1 Scope

This part of IEC 62471, which is a technical report, provides guidelines for the safe use of INTENSE PULSED LIGHT (IPL) source equipment in professional premises.

This technical report sets out the control measures recommended for the safety of recipients of IPL treatment, staff, service, maintenance personnel and others. Engineering controls which form part of the IPL equipment or the installation are also briefly described to provide an understanding of the general principles of protection.

1.2 Object

The object of this report is to provide information which helps to protect persons from hazardous exposure to optical radiation and other associated hazards by providing guidance on how to establish safety measures and procedures.

NOTE Although the manufacturers provide treatment information in their instructions for use, such information may not be exhaustive or applicable to all CLIENT treatment conditions.

If IPLs are applied to patients in medical premises, the physician is deemed to be responsible for all medical aspects of the treatment including his or her decisions about questions of indication and contraindication such as found in Clauses 5 and 6.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

None.