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Dimming and hot restrike of metal halide lamps

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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FOREWORD

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IEC TR 63130, which is a Technical Report, has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

The text of this Technical Report is based on the following documents:

Draft TR	Report on voting
34A/2012/DTR	34A/2027/RVDTR

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

This document is to be used in conjunction with IEC 61167:2015.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document 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- withdrawn,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

Much work has been carried out in recent years on “advanced” properties of metal halide lamps, particularly on the subject of hot restrike and dimming. These issues have been discussed within SC 34A. However, the changes in technology and the focus of experts in the field of lighting products has meant that there is now less market relevance or interest or resources available to carry this work through with a view to publishing amendments to IEC 61167, the standard on metal halide performance.

It was therefore considered that the publication of this "state of the art" data as a Technical Report would be more useful. This document represents the current state of experts’ opinions on how metal halide lamps should be standardized to cover the relevant parameters for hot restrike and dimming.

This document contains additional comments and material with respect to IEC 61167.

This document is intended only as a guide for future standardizers and is not intended to be used normatively.

DIMMING AND HOT RESTRIKE OF METAL HALIDE LAMPS

1 Scope

This document describes the current state of experts' opinions on the standardization of metal halide lamps to cover the relevant parameters for hot restrike and for dimming in combination with low frequency square wave ballasts. It provides guidelines for supplementing or modifying IEC 61167 in order that these conditions are covered.

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.

IEC 61167:2015[1], *Metal halide lamps – Performance specification*

[1] Withdrawn.