

NEMA LL 8

Limits on Mercury Content in Self-Ballasted Compact Fluorescent Lamps



NEMA LL 8

**LIMITS ON MERCURY
CONTENT IN
SELF-BALLASTED
COMPACT FLUORESCENT
LAMPS**

Currently in preview, click buy full version

Currently in preview, click buy full version

NEMA Standards Publication LL 8-2010

Limits on Mercury Content in Self-Ballasted Compact Fluorescent Lamps

Published by

National Electrical Manufacturers Association

1300 North 17th Street, Suite 1752

Rosslyn, Virginia 22009

www.nema.org

© Copyright 2010 by the National Electrical Manufacturers Association. All rights including translation into other languages, reserved under the Universal Copyright Convention, the Berne Convention for the Protection of Literary and Artistic Works, and the International and Pan American Copyright Conventions.

NOTICE AND DISCLAIMER

The information in this publication was considered technically sound by the consensus of persons engaged in the development and approval of the document at the time it was developed. Consensus does not necessarily mean that there is unanimous agreement among every person participating in the development of this document.

The National Electrical Manufacturers Association (NEMA) standards and guideline publications, of which the document contained herein is one, are developed through a voluntary consensus standard's development process. This process brings together volunteers and/or seeks out the views of persons who have an interest in the topic covered by this publication. While NEMA administers the process and establishes rules to promote fairness in the development of consensus, it does not write the document and it does not independently test, evaluate, or verify the accuracy or completeness of any information or the soundness of any judgments contained in its standards and guideline publications.

NEMA disclaims liability for any personal injury, property, or other damages of any nature whatsoever, whether special, indirect, consequential, or compensatory, directly or indirectly, resulting from the publication, use of, application, or reliance on this document. NEMA disclaims and makes no guaranty or warranty, expressed or implied, as to the accuracy or completeness of any information published herein, and disclaims and makes no warranty that the information in this document will fulfill any of your particular purposes or needs. NEMA does not undertake to guarantee the performance of any individual manufacturer or seller's products or services by virtue of this standard or guide.

In publishing and making this document available, NEMA is not undertaking to render professional or other services for or on behalf of any person or entity, nor is NEMA undertaking to perform any duty owed by any person or entity to someone else. Anyone using this document should rely on his or her own independent judgment or, as appropriate, seek the advice of a competent professional in determining the exercise of reasonable care in any given circumstance. Information and other standards on the topic covered by this publication may be available from other sources, which the user may wish to consult for additional views or information not covered by this publication.

NEMA has no power, nor does it undertake to police or enforce compliance with the contents of this document. NEMA does not certify, test, or inspect products, designs, or installations for safety or health purposes. Any certification or other statement of compliance with any health or safety-related information in this document shall not be attributable to NEMA and is solely the responsibility of the certifier or maker of the statement.

CONTENTS

Foreword	ii
Section 1 GENERAL	1
1.1 Scope.....	1
1.2 References	1
Section 2 MAXIMUM DOSE LEVEL	2
Section 3 CONFORMANCE AND MANUFACTURER'S DECLARATION	3
3.1 Conformance	3
3.2 Manufacturer's Declaration	3
Section 4 SAMPLE PREPARATION AND TEST	4
4.1 Test Lamps	4
4.2 Sample Size	4
4.3 Method of Measuring Total Mercury Content.....	4

Foreword

The NEMA Lamp Section has prepared this standards publication based on discussions with representatives of the United States Environmental Protection Agency, the United States Department of Energy, and the Natural Resources Defense Council. Utilities, environmental groups, energy efficiency consortia, and other stakeholders have recently expressed concerns that compact fluorescent lamp market penetration could be negatively impacted because of the presence of mercury. Since compact fluorescent lamps are an environmentally preferable product from a total mercury lifecycle perspective, it is of benefit to all stakeholders to minimize these concerns. The two key responses are to:

1. Limit the total mercury content of compact fluorescent lamps; and
2. Ensure that compact fluorescent lamps are managed in an environmentally responsible manner at end-of-life.

Therefore, this standards publication provides an industry way forward to commit to a voluntary maximum mercury dose level per lamp. It applies to integral, self-ballasted compact fluorescent lamps manufactured or imported after September 2010. This will ensure that manufacturers have sufficient time to manage their supply chains.

In the preparation of this standards publication, input of users and other interested parties has been sought and evaluated. Inquiries, comments, and proposed or recommended revisions should be submitted to the concerned NEMA product subdivision by contacting the:

Vice President, Technical Services
National Electrical Manufacturers Association
1300 North 17th Street, Suite 1752
Rosslyn, Virginia 22209

Section 1 GENERAL

1.1 SCOPE

This standards publication covers limited integral, self-ballasted compact fluorescent lamps of all base types, such as E26, GU24, etc., hereinafter referred to as compact fluorescent lamps.

1.2 REFERENCES

The following normative documents contain provisions, which through reference in this text constitute provisions of this standards publication. By reference herein these publications are adopted in whole or in part as indicated, in this standards publication. These referenced documents are available from the organizations below.

A method of measuring total mercury content is under development by the International Electrotechnical Commission, and reference to it and any other relevant standards will be added in the future.