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Standards

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I.S. EN 16268:2013

Performance of reflecting surfaces for luminaires

I.S. EN 16268:2013

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English Version

Performance of reflecting surfaces for luminaires

Performance des surfaces réfléchissantes pour luminaires

Bewertung von Reflektoroberflächen für den Einsatz in
Leuchten

This European Standard was approved by CEN on 1 December 2012.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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Foreword

This document (EN 16268:2013) has been prepared by Technical Committee CEN/TC 169 "Light and lighting", the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2013, and conflicting national standards shall be withdrawn at the latest by July 2013.

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1 Scope

This European standard is applicable to the optical performance of untreated or coated materials supplied in plane sheet or strip form for use as a plane or formed reflector as well as preformed reflectors both as originally produced and after prescribed tests to determine probable maintained performance in service. This includes:

- a) untreated base materials, including:
 - 1) aluminium,
 - 2) steel,
 - 3) plastic,
 - 4) glass.
- b) surface treated materials, including:
 - 1) polished materials,
 - 2) anodised materials,
 - 3) vacuum metallised materials,
 - 4) painted materials,
 - 5) multilayer systems.

This European Standard is not applicable to fluorescent materials.

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.

EN 12665, *Light and lighting — Basic terms and criteria for specifying lighting requirements*

EN ISO 4892-3:2006, *Plastics — Methods of exposure to laboratory light sources — Part 3: Fluorescent UV lamps (ISO 4892-3:2006)*

EN ISO 6270-2:2005, *Paints and varnishes — Determination of resistance to humidity — Part 2: Procedure for exposing test specimens in condensation-water atmospheres (ISO 6270-2:2005)*

ISO 7668, *Anodizing of aluminium and its alloys — Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20 degrees, 45 degrees, 60 degrees or 85 degrees*

ISO 9211-4:2012, *Optics and photonics — Optical coatings — Part 4: Specific test methods*

ISO 15184:2012, *Paints and varnishes — Determination of film hardness by pencil test*

CIE 15.3:2004, *Colorimetry*

CIE 130:1998, *Practical methods for the measurement of reflectance and transmittance*

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