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Edition 1.2

## **SOUTH AFRICAN NATIONAL STANDARD**

# **Luminaires for interior lighting, streetlighting and floodlighting — Performance requirements**

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**Table of changes**

<b>Change No.</b>	<b>Date</b>	<b>Scope</b>
Amdt 1	2012	Amended to include induction lamps and LED light sources in the scope of the documents, to update the definitions and to renumber them accordingly, to clarify light output ratio percentages, to delete the classification of luminaires under the BZ system, to delete r.m.s measurements, to include goniometers where the luminaire is not retained in the design attitude and to update referenced standards.
Amdt 2	2013	Amended to update referenced standards, and to correct the power factor for lamps smaller than or equal to 25 Watts.

**Foreword**

This South African standard was approved by National Committee SABS/TC 064/SC 02, *Lighting and optics – Luminaires*, in accordance with procedures of the SABS Standards Division, in compliance with annex 3 of the WTO/TBT agreement.

This document was published in July 2013.

This document supersedes SANS 475:2012 (edition 1.1).

A vertical line in the margin shows where the text has been technically modified by amendment No.2

**This document is referenced in the *Compulsory specification for electrical and electronic apparatus*, as published by Government Notice No. R. 89 (Government Gazette No. 31844) of 6 February 2009.**

Annex A forms an integral part of this standard.

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## **Luminaires for interior lighting, streetlighting and floodlighting — Performance requirements**

### **1 Scope**

This standard covers the performance requirements for interior lighting, streetlighting and floodlighting luminaires for

- a) operation with fluorescent lamps, induction lamps, low-pressure sodium vapour lamps, high-intensity discharge lamps or LED light sources; Amdt 1
- b) use on a.c. supply voltages with a frequency of 50 Hz; and
- c) operation at ambient temperatures of 0 °C to 40 °C.

### **2 Normative references**

The following standards contain provisions which, through reference in this text, constitute provisions of this standard. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of that standard, parties to agreements based on this standard are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards can be obtained from the SABS Standards Division.

CIE 121, *The photometry and goniophotometry of luminaires.*

SANS 9227/ISO 9227:2007, *Corrosion tests in artificial atmospheres – Salt spray tests.* Amdt 2

SANS 10098-1, *Public lighting – Part 1: The lighting of public thoroughfares.*

SANS 60529/IEC 60529, *Degrees of protection provided by enclosures (IP Code).*

SANS 60598-1/IEC 60598-1, *Luminaires – Part 1: General requirements and tests.*

SANS 60598-2-1/IEC 60598-2-1, *Luminaires – Part 2: Particular requirements – Section 1: Fixed general purpose luminaires.*

SANS 60598-2-3/IEC 60598-2-3, *Luminaires – Part 2-3: Particular requirements – Luminaires for road and street lighting.*

SANS 60598-2-5/IEC 60598-2-5, *Luminaires – Part 2-5: Particular requirements – Floodlights.*