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PRE-STANDARD

**Self-ballasted LED-lamps for general lighting services –
Performance requirements**

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SELF-BALLASTED LED-LAMPS FOR GENERAL LIGHTING SERVICES –

Performance requirements

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The text of this PAS is based on the following document:

This PAS was approved for publication by the P-members of the committee concerned as indicated in the following document

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Following publication of this PAS, which is a pre-standard publication, the technical committee or subcommittee concerned may transform it into an International Standard.

This PAS shall remain valid for an initial maximum period of 3 years starting from the publication date. The validity may be extended for a single 3-year period, following which it shall be revised to become another type of normative document, or shall be withdrawn.

SELF-BALLASTED LED-LAMPS FOR GENERAL LIGHTING SERVICES –

Performance requirements

1 General

1.1 Scope

This PAS specifies the performance requirements for self-ballasted LED lamps with a supply voltage up to 250 V, together with the test methods and conditions required, intended for domestic and similar general lighting purposes, having:

- a rated wattage up to 60 W;
- a rated voltage of up to 250 V AC or DC;
- a lamp cap according to IEC 62560¹⁾.

The requirements of this PAS relate to type testing.

This PAS does not cover self-ballasted LED lamps that intentionally produce tinted or coloured light neither does it cover OLEDs.

Recommendations for whole product testing or batch testing are under consideration.

These performance requirements are additional to the requirements in IEC 62560¹⁾ (safety standard for self-ballasted LED lamps).

NOTE When operated in a luminaire, the claimed performance data can deviate from the values established via this PAS.

1.2 Statement

It may be expected that self-ballasted LED lamps which comply with this PAS will start and operate satisfactorily at voltages between 92 % and 106 % of rated supply voltage and at an ambient air temperature of between –10 °C and 40 °C and in a luminaire complying with IEC 60598-1.

For compliance with EMC requirements, reference is made to regional requirements. For relevant standards, see Bibliography.

2 Normative references

The following referenced documents are indispensable for the application 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 60061-1, *Lamp caps and holders together with gauges for the control of interchangeability and safety*

IEC 60081, *Double-capped fluorescent lamps – Performance specifications*

1) In preparation.

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

IEC 60630, *Maximum lamp outlines for incandescent lamps*

IEC/TR 61341, *Method of measurement of centre beam intensity and beam angle(s) of reflector lamps*

CIE 84:1989, *Measurement of Luminous Flux*