

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Horticultural lighting – LED packages for horticultural lighting –
Part 1: Specification sheet**

**Eclairage horticole – Boîtiers LED pour l'éclairage horticole –
Partie 1: Feuille de spécification**



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CONTENTS

FOREWORD.....	3
1 Scope.....	5
2 Normative references	5
3 Terms and definitions	5
4 General requirements	7
4.1 Title of the specification sheet.....	7
4.2 Figures	7
5 Performance characteristics	7
5.1 General.....	7
5.2 Wavelength and chromaticity	7
5.3 Spectral power distribution and spectral photon flux distribution	7
5.4 Photon intensity distribution	8
5.5 Photon flux versus forward current.....	8
5.6 Photon flux versus temperature.....	8
5.7 Photon flux	8
5.8 Forward voltage	8
5.9 Photon flux maintenance.....	8
5.10 Spectrum maintenance	8
5.11 Spectral change versus temperature	9
5.12 Spectral change versus forward current	9
5.13 Photon flux efficacy versus forward current	9
6 Operational characteristics	9
6.1 Operating limits.....	9
6.2 Thermal and electrical characteristics	9
6.3 Forward current versus forward voltage	10
6.4 Maximum forward current versus temperature.....	10
6.5 Forward voltage versus temperature	10
7 Dimensional and mechanical characteristics	10
8 Processing characteristics	10
9 Packaging information	11
Bibliography.....	12

INTERNATIONAL ELECTROTECHNICAL COMMISSION

HORTICULTURAL LIGHTING – LED PACKAGES FOR HORTICULTURAL LIGHTING –

Part 1: Specification sheet

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IEC 63403-1 has been prepared by IEC technical committee 34: Lighting. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
34/1142/FDIS	34/1161/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 63403 series, published under the general title *Horticultural lighting – LED packages for horticultural lighting*, can be found on the IEC website.

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

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HORTICULTURAL LIGHTING – LED PACKAGES FOR HORTICULTURAL LIGHTING –

Part 1: Specification sheet

1 Scope

This part of IEC 63403 specifies the requirements for specification sheets relating to LED packages designed for horticultural lighting purposes.

LED packages designed for horticultural lighting purposes in this document can be designed for emission of white light or emission of optical radiation at specified wavelengths.

LED packages for horticultural lighting purposes are usually designed into LED modules or luminaires.

This document does not contain compliance criteria, which can be affected by module or luminaire design, and are assumed to be plant species and growth stage dependent.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

LED package

single electric component comprising principally at least one LED die

Note 1 to entry: An LED package does not include the control unit of the control gear, does not include a cap, is not connected directly to the supply voltage and does not include active electronic components.

Note 2 to entry: An LED package is a discrete component and part of the LED module or LED lamp.

Note 3 to entry: An LED package can include one or more of the following:

- optical elements;
- light converters (phosphors);
- thermal, mechanical, and electric interfaces;
- components to address ESD concerns.

[SOURCE: IEC 60050-845:2020, 845-27-065]