

TECHNICAL REPORT



Lighting systems – Characteristics for selected outdoor applications



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Lighting systems – Characteristics for selected outdoor applications

INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

ICS 29.140.01; 93.080.40

ISBN 978-2-8322-9501-4

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**LIGHTING SYSTEMS –
CHARACTERISTICS FOR SELECTED OUTDOOR APPLICATIONS**
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IEC TR 63540 has been prepared by IEC technical committee 34: Lighting. It is a Technical Report.

The text of this Technical Report is based on the following documents:

Draft	Report on voting
34/1184/DTR	34/1205/RVDTR

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 Technical Report 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.

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LIGHTING SYSTEMS – CHARACTERISTICS FOR SELECTED OUTDOOR APPLICATIONS

1 Scope

This document provides information on outdoor lighting systems for selected applications. This document provides an overview of configuration, interfaces with other devices, communications, control strategies and characteristics of various outdoor lighting systems with relevant functionalities.

Applications selected for inclusion are:

- outdoor parking area lighting;
- road and street lighting;
- pedestrian and cycle pathways lighting.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60050-845, *International Electrotechnical Vocabulary (IEV) – Part 845: Lighting*, available at <https://www.electropedia.org/>

IEC TS 63105, *Lighting systems and related equipment – Vocabulary*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60050-845 and IEC TS 63105, and the following 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

astronomical time control

device that actuates a load and adjusts power in steps based on the time of day or based on astronomical events

Note 1 to entry: Astronomical events can be sunset or sunrise, accounting for geographic location and day of the year.

3.2

light sensor

device that detects the quantity of light