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Digital load side transmission lighting control - Part 1: Basic requirements

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 04/16

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EUROPEAN STANDARD

**EN 62756-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2015

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English Version

**Digital load side transmission lighting control - Part 1: Basic requirements  
(IEC 62756-1:2015)**

Commande d'éclairage de transmission côté numérique  
(DLT) - Partie 1 : Exigences de base  
(IEC 62756-1:2015)

Digitale lastleistungsseitige Schnittstelle zur  
Beleuchtungssteuerung (DLT) - Teil 1: Grundanforderungen  
(IEC 62756-1:2015)

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The text of document 34C/1054/CDV, future edition 1 of IEC 62756-1, prepared by SC 34C "Auxiliaries for lamps" of IEC/TC 34 "Lamps and related equipment" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62756-1:2015.

The following dates are fixed:

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60038	-	IEC standard voltages	EN 60038	-
IEC 60364	series	Low-voltage electrical installations	HD 60364	series



**IEC 62756-1**

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# **INTERNATIONAL STANDARD**



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## **Digital load side transmission lighting control (DLT) – Part 1: Basic requirements**





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# INTERNATIONAL STANDARD



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## Digital load side transmission lighting control (DLT) – Part 1: Basic requirements

INTERNATIONAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DIGITAL LOAD SIDE TRANSMISSION LIGHTING CONTROL (DLT) –****Part 1: Basic requirements**

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International Standard IEC 62756-1 has been prepared by subcommittee 34C: Auxiliaries for lamps, of IEC technical committee 34: Lamps and related equipment.

The text of this standard is based on the following documents:

CDV	Report on voting
34C/1054/CDV	34C/1081B/RVC

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62756 series, published under the general title *Digital load side transmission lighting control (DLT)*, can be found on the IEC website.

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## INTRODUCTION

This standard concerning Digital Load Side Transmission Lighting Control (DLT) describes a protocol for simple control of brightness, colour, colour temperature, and other parameters for the purpose of controlling lighting sources such as CFLi, LED light engines, electronic control gear and any other light source with integrated or external control gear.

This protocol uses existing wiring and allows easy retrofit of standard switches, dimmers and lamps with the new devices described in this standard, with little or no configuration.

The following standards contain safety requirements for control devices and control gear:

- IEC 60669-2-1, Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic switches,
- IEC 61347, Lamp control gear,
- IEC 60968, Self-ballasted lamps for general lighting services – Safety requirements,
- IEC 62560, Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications.

# DIGITAL LOAD SIDE TRANSMISSION LIGHTING CONTROL (DLT) –

## Part 1: Basic requirements

### 1 Scope

This International Standard specifies a protocol, electrical interface and test procedures for control of electronic lighting equipment by digital signals over the load side mains wiring.

Safety requirements are not covered by this standard.

### 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.

IEC 60364 (all parts), *Low-voltage electrical installations*

IEC 60038, *IEC standard voltages*

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