

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CISPR 15**  
Edition 9.0 2018-05**LIMITS AND METHODS OF MEASUREMENT  
OF RADIO DISTURBANCE CHARACTERISTICS OF  
ELECTRICAL LIGHTING AND SIMILAR EQUIPMENT****INTERPRETATION SHEET 1**

This interpretation sheet has been prepared by subcommittee CISPR F: Interference relating to household appliances tools, lighting equipment and similar apparatus, of IEC technical committee CISPR: International special committee on radio interference.

The text of this interpretation sheet is based on the following documents:

DISH	Report on voting
CIS/F/777/DISH	CIS/F/790/RVDISH

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

**CISPR 15 interpretation sheet on the worst-case mode of operation****Introduction**

Subclause 7.5 specifies the operating modes of lighting equipment that must be considered during an emission test. A few examples are given to support the explanation of what 'different operating modes' means. The list of examples is of course not exhaustive. Apparently, the example of 'colour shifting' is not clear enough and it is sometimes interpreted as if any possible colour and/or correlated colour temperature (CCT) setting that lighting equipment may produce shall be assessed during measurements. Many types of LED lighting may be set in many different colours and CCTs. Compared to other operational-mode related influence quantities such as light level regulation, flashing or radio communication, the risk of not capturing the maximum level of electromagnetic (EM) disturbances due to different colour or CCT settings is very small, provided that all channels of a LED driver used to change colour or CCT are operative. The 'colour shifting'-example was meant for example for a mode where the light output continuously switches from one colour to another with a certain repetition frequency (e.g. applied for entertainment, events etc.), instead of emitting a single stable colour and/or CCT.