

(PREVIEW)

*Indian Standard*

**SPECIFICATION FOR  
TUBULAR FLUORESCENT LAMPS FOR  
GENERAL LIGHTING SERVICE  
PART I REQUIREMENTS AND TESTS**

**1. SCOPE**

**1.1** This standard (Part I) covers the requirements and tests for a range of tubular fluorescent lamps for general lighting services which are operated on ac mains. Lamps of the following types are included:

- a) Lamps with preheated cathodes operated for operation on ac mains with the use of a starter,
- b) Lamps with preheated cathodes for operation on ac mains without the use of a starter,
- c) Lamps with preheated cathodes for operation on ac mains with the use of a starter and additionally for operation on high frequency supplies with or without the use of a starter,
- d) Lamps with preheated cathodes for operation on high frequency supplies, with or without the use of a starter,
- e) Lamps with non-preheated cathodes for operation on high frequency supplies without the use of a starter, and
- f) Lamps having a rated life of at least 5 000 h.

**NOTE 1** — It may happen that the same lamp can be suitable for both methods of operation (a), and (b) given above. In normal operation the cathodes are continuously heated, in the case of lamps of type (a) by the arc current only, and in the case of lamps of type (b), supplementary heating by a current supplied by the ballast may be added.

**NOTE 2** — A manufacturer can nominate any type of lamps to be in compliance with any one or more of the above groupings. If a lamp is nominated for 50 Hz and high frequency operation, the frequency to be used in the assessment of the lamp shall be declared by the manufacturer.