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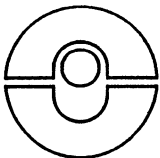
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OR

1st edition, 1.1.78

(Reprint, 1-11-1991)

**Electric lighting
in passenger rolling stock**



International Union of Railways

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OR

Leaflet to be classified in Volumes:

V - Transport stock

VI - Traction

Amendments

1 1.1.79

2 1.1.82

3 1.1.83

4 1.7.85

5 1.7.88

6 1.7.89

7 1.1.91

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Obligatory provisions are preceded by an asterisk: *

Note

This leaflet is part of a set which also includes:

- Leaflet 532 : Trailing stock: Signal-lamp brackets - Coaches: fixed electric signal lamps.
- Leaflet 533 : Protection by the earthing of metal parts of vehicles.
- Leaflet 550 : Power supply installations for passenger stock.
- Leaflet 552 : Electric power supply for trains taken from the train cable.
- Leaflet 553 : Ventilation, heating and air-conditioning in coaches.
- Leaflet 554-1 : Power supply to electrical equipment on railway vehicles from a local mains system or from another power source at 220 V or 380 V, 50 Hz.
- Leaflet 568 : Loudspeaker systems in coaches.

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OR

Contents ,

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- 3 - Lighting of other parts of coaches
- 4 - Illumination intensity
- 5 - Centralised lighting control and monitoring devices
- 6 - Spares
- 7 - Operating instructions and diagrams
- 8 - Additional provisions applicable to type-Z coaches
- || 9 - Emergency lighting system

Plate 1 - Remote control for lighting

|| **Plate 2 - Uniformity of emergency lighting system**

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*** O - General**

0.1 - This leaflet applies to all passenger stock accepted for routine working on international services.

0.2 - This leaflet includes:

- general provisions with which lighting installations must comply, irrespective of their design, and
- special provisions for components which it is wished to standardise.

1 - Basic equipment

***1.1** - Each coach must be provided with an electric lighting installation.

***1.2** - As regards the installations for the electric power supply for lighting purposes, Leaflet 550 shall be applicable.

***1.3** - Emergency lighting facilities must be provided. ||

2 - Lighting in compartments

***2.1** - The equipment in compartments must comprise a general lighting system which can be reduced at night.

***2.2** - For safety reasons, the reduced lighting must remain on if the normal lighting in the compartment is off, so that a compartment cannot be in complete darkness.

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2.2.1 - This provision does not apply to couchette coaches and to the areas of a vehicle not accessible to all passengers on the train.

2.2.2 - General lighting system

Depending on the design chosen, the general lighting system may be adjustable between two levels of light intensity.

2.2.3 - Seat lighting

***2.2.3.1** - Individual reading lights must be provided for each 1st class seat. They must be able to be switched on when the general lighting system is functioning at its weakest as well as when it is off.

2.2.3.1.1 - It is recommended that individual reading lamps also be provided for each 2nd class seat.

2.2.3.2 - it is possible to make provision for the reading lamp to function whatever the level of general lighting.

***2.2.3.3** - Individual seat lighting must not inconvenience passengers in neighbouring or opposite seats.

***2.3** - The switch for reducing the general lighting must be situated on the right and above the compartment door, and must be marked by the relevant pictogram, in accordance with Leaflet 413.

***2.4** - The fluorescent lamps of the general lighting system must be arranged so that passengers cannot touch or damage them accidentally.

***2.5** - Extra individual lamps for use as reading lamps shall be arranged as follows:

- a reading lamp with a directional pencil of light, placed at right angles to each 1st class seat, above the passenger's head;
- a reading lamp placed at the top end of each berth in 1st and 2nd class couchette compartments.

* **2.6** - The lighting system must be designed to ensure that the light intensity values specified in point 4 can be attained:

- either through an adequately-calibrated general lighting system. In this case, it shall merely be a matter of ensuring that the reading lamps specified in point 2.5 only light up after the general lighting has been switched off,
- or through a less-bright general lighting system combined with individual lamps that can be switched on concurrently with the general lighting.

* **2.7** - The reading lamp switch must be situated in the immediate proximity of the reading lamp or form part of it.

* **2.8** - The design of reading lamps placed above seats must be such that other passengers placed opposite these reading lamps are not dazzled by them and are unable to see the incandescent lamps.

* **2.9** - If reading lamps are installed in 2nd class seater coaches, they must comply with the provisions of paragraphs 2.6 to 2.8.

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* **2.10** - It is recommended that light bowls be designed to keep dust and drips to a minimum.

3 - LIGHTING IN ANCILLARY COMPARTMENTS

* **3.1** - The lighting in ancillary compartments, such as the side corridor, vestibules, washrooms and toilets shall be switched on and off simultaneously with the general lighting system in the coach.