



Risk Assessment Checklist 2025

- (1) Signify white paper 'Switching from fluorescent tubes to LED tubes: FAQs on product compliance and the CE mark'.
- (2) This document is made in English and translated into some local languages. In case of a conflict the English version prevails.



Switching from fluorescent tubes to LED tubes: Risk assessment*

Checked by:

Luminaire type:

(Enter protection class/ manufacturer's designation from type plate if applicable)

Installation location:

(street, building, room, position in the room)

Date:

The aim of the risk assessment is to determine the technical condition of the luminaire or lighting system to be modified with respect to safety-related aspects.

Below, you will find a list of assessment criteria. To conclude that the risk is reduced or remains unchanged, that the modified luminaires do not introduce new hazards and that they do not increase safety and electromagnetic compatibility risks, all criteria must be met.

Signify recommends using this document for a risk assessment and providing it to the customer once it has been completed and signed by the installer.

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The conversion must be performed in accordance with the installation instructions provided with the LED lamp.

If you have any questions, please feel free to contact your local Signify representative.

The following aspects must be examined:

Before switching from fluorescent tubes to LED tubes

Tested

The ambient conditions on site must be verified. The following must be checked:

- ☐ **The ambient temperature** of the luminaire is within the temperature range of -20°C to +45°C.
- ☐ The ambient conditions on site (**dirt, water, dust**) comply with the specification of the luminaire (IP protection).
- ☐ There is no influence of **chemically active substances** (e.g. sulphur).
- ☐ The luminaire is mounted on a **normal surface** OR the luminaire has a D or FF marking when mounted on **highly flammable surfaces**.

General test points

The application and intended purpose of the luminaire must be verified. The following must be checked:

- ☐ The original performance, purpose or type of the luminaires remain unchanged after the conversion. e.g. indoor luminaires, office luminaires or street luminaires must continue to be used as such after the conversion.
- ☐ The luminaire is not intended for emergency lighting.
- ☐ The luminaire is not used in a sports hall OR the luminaire has a ball impact safety sign when used in a sports hall.
- ☐ The luminaire is not ATEX-certified.
- ☐ If the luminaire is connected to a lighting control system, please contact your Signify representative for information on its suitability

Visual inspection of the luminaire

- ☐ The luminaire and mounting show no visible damage (no deformations, dents, openings and cracks or other damage, e.g. damage to any seals. Any seals are in perfect condition).
- ☐ Plastics that hold live parts in position or provide protection against electric shock have sufficient mechanical strength.
- ☐ Lamp holders are in good condition.
- ☐ Wiring and insulation are in good condition.

During switching from fluorescent tubes to LED tubes

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For proper modification, please follow the installation instructions supplied with the LED lamp.

- ☐
- Appropriate wire clamps are on hand.

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• All conductive housing parts of protection class 1 luminaires are connected to the protective conductor system of the electrical installation.

• Protection class 2 luminaires have reinforced or double insulation.

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After switching from fluorescent tubes to LED tubes

The converted luminaire must no longer be operated with fluorescent lamps. To indicate this, the enclosed warning sticker shall be applied clearly visible next to the type plate of the luminaire. Give a final check that,

- ☐
- The luminaire is mounted thoroughly.

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Special mechanical properties (optional)

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