When replacing a straight LED lamp with a fluorescent light fixture
Incorrect combination may lead to a fire.

Fires were reported in two locations within the Agency’s jurisdiction during July and August in connection with straight-through LED lamps. The fires were caused by the wrong combination of straight LED lamps and fluorescent lamps.

If the combination is continued to be used in a different way, the internal parts may be overheated due to overvoltage, high frequency or excessive current flowing into them, causing them to overheat and catch fire. Since straight LED lamps are now widely used and can be easily replaced by anyone, there is a concern that the number of similar fires may increase.

When replacing straight LED lamps, make sure that the lamps are compatible with fluorescent lamps before installing them.

Examples of fires
(1) Case 1
date of outbreak of fire
July 2016
building on fire
Fireproof housing Ceiling (indirect lighting)
cause of the fire
A fire was caused by the incorrect installation of a straight tube LED lamp for rapid-start lamps in a semiconductor fluorescent light fixture.

(2)Case 2

date of outbreak of fire
August 2016

building on fire
Fireproof apartment building, 1st floor hall

cause of the fire
The fire was caused by the incorrect installation of a straight tube LED lamp for rapid-start lamps in a glow starter-type fluorescent light fixture.

Causes of the fire and countermeasures
In each case, the person who replaced the lamps did not sufficiently check the start-up system of the fluorescent lighting fixtures and lamps, and as a result, installed the wrong combination.

Warning from the Japan Lighting Manufacturers Association

Please refer to the following website for a reminder from the Japan Lighting Manufacturers Association about similar cases.
The straight-through LED lamp to be replaced had the same indication as the lamp before it was replaced.

Even if the lamp is labeled the same, some fluorescent luminaires may not be compatible, depending on their specifications. Check both the lamp and the fluorescent light fixture before you replace it yourself. For now, I installed it and it lit up without any problems.

It doesn’t always fit. There have been cases of fires starting a few months after installation.

※

In addition, there are also rapid-start and starter types.

Straight-tube LED lamps

※

このほかに、スタータ式などがあります。
Burnout

The board is receiving so much heat that it is ashen.