

SafetyAlert

July 2016

Incident Description

A Safety Alert HE173 relating to failure of Philips Luma 3 luminaire equipment on M1 J39-42 was issued in March 2016.

[Safety Alert HE173 Failed Philips Luma 3 Luminaires](#)

This safety alert is being issued because, after investigation, the scope and cause of the risk has been revised.

The March 16 safety alert described an issue with the product where, in high wind conditions, the upper canopy of the luminaire broke free from its lower frame housing.

Philips attended site and took away units for further investigation. This investigation has identified that there is a design fault with both the Luma 2 and 3 luminaires.

In prolonged high winds, the product's spring loaded hinge pins vibrate loose as a result of column movement. The amount of vibration is related to the column height, column type, (aluminium columns flex most) column design, column base fixing, geographic location, and, local topography.

Highways England has in the order of 3,000 Philips Luma 2 and 3 road lights installed mostly on the motorway network (2% of the lighting asset).

PTS are in liaison with Philips identifying an upgrade to the units to eliminate the risk associated with the design fault. This will be detailed in a subsequent CHE memo. It is anticipated to have the CHE memo released by the end of June, several weeks prior to mid-September when the monthly average wind speeds are expected to increase.

Actions

- In the interim, any team with a responsibility for the safety of these assets (primarily operation and maintenance teams) should communicate to their service providers or contractors that this is a risk they own and are required to manage on behalf of the client.
- Scouting patrols where the luminaires are fitted will identify luminaire separation failure.
- Where a failure or failures are identified on a section of the network, a risk based approach should consider whether luminaires on that section of the network should be either:
 - removed,
 - secured with either heavy duty cable ties or tespa bands or similar, or,
 - it could be decided that no action is currently required.



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