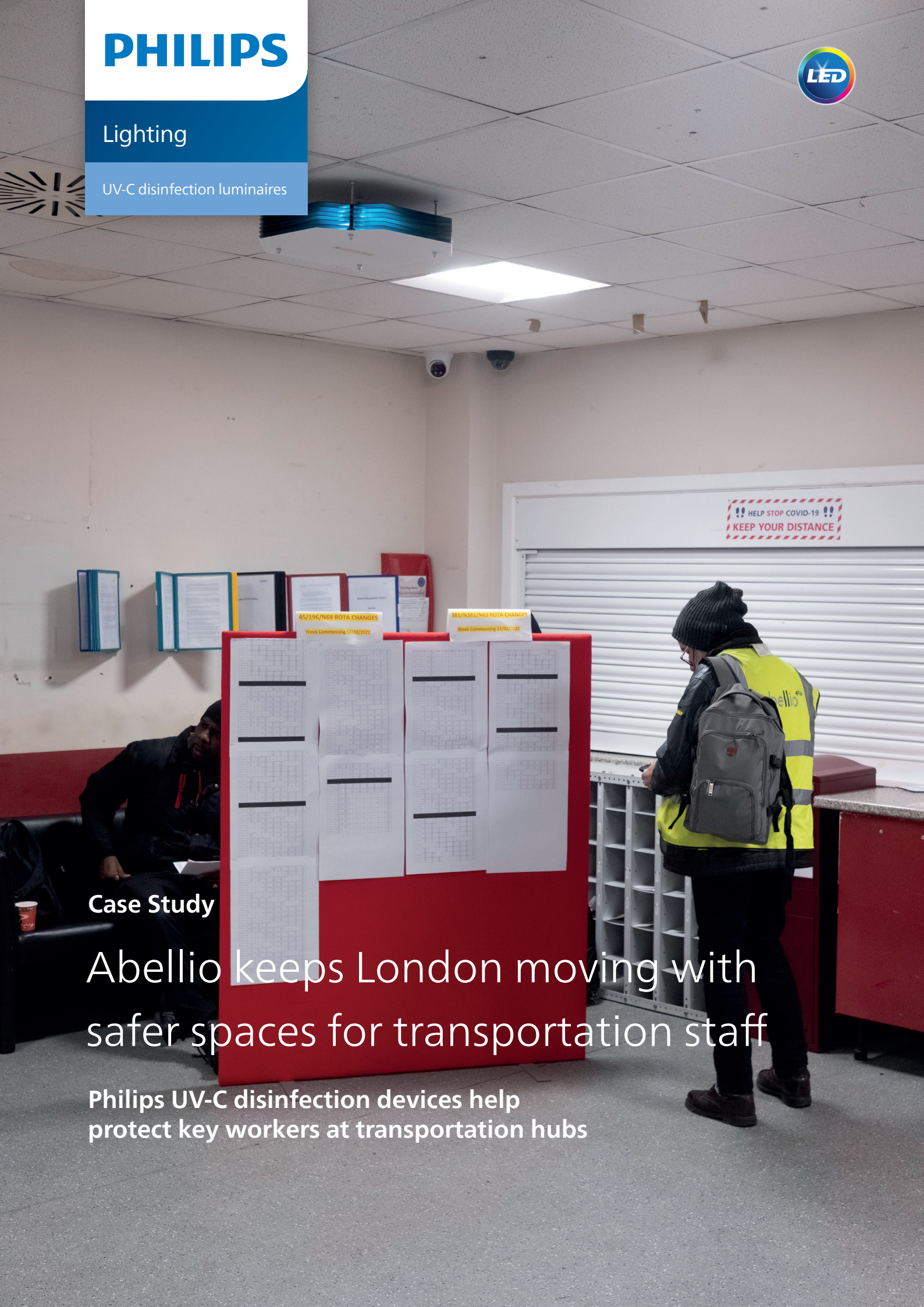
PHILIPS

Lighting

UV-C disinfection luminaires



Case Study

Abellio keeps London moving with safer spaces for transportation staff

Philips UV-C disinfection devices help protect key workers at transportation hubs

Every year, millions of Londoners pass through the capital's public transport system. Keeping this network running smoothly relies on the transportation staff who work with the public and behind the scenes.

Amid the ongoing COVID-19 pandemic and other risks like seasonal flu, Abellio understands the importance of taking a proactive approach to keeping workplaces safe and hygienic.

Customer challenge

Abellio wanted to ensure that staff at its bus depots are given the best protection from COVID-19 and other biological threats with particular reference to those areas in its buildings where natural or effective forced ventilation is either less than optimal or non-existent.

From the frontline personnel who come face to face with the public each day to the essential staff who keep Abellio running in the offices and depots, it is essential for London's mobility that these priority workers are able to operate within a safe and healthy workplace. Abellio's buses carry 150 million passengers each year, with 2,500 staff working to keep the city moving.

The solution

Leading UK lighting and electrical contractor, Powercor, introduced Abellio to the Philips range of UV-C disinfection devices where they opted to add an extra layer of protection to key areas in the depots.

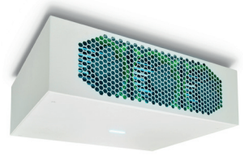
The Philips UV-C disinfection devices use ultraviolet light to inactivate microorganisms like viruses and bacteria, making them harmless to humans and animals. UV-C disrupts the DNA or RNA that enables those viruses and bacteria to multiply. The technology has been used safely and effectively for more than 35 years.

At the control room in the Twickenham depot, Powercor installed Philips UV-C disinfection active air devices. These wall and ceiling-mounted units use ventilators to pull air from the room into the device, filter it, then submit it to an intense disinfection under two 60W UV-C lamps. The clean air then passes out into the room. UV-C is emitted only within the unit itself, so the process can happen continuously in the background, even while people are present in the room.

At the training room in Battersea and in the reception area in Walworth, Abellio opted for Philips UV-C disinfection upper-air devices. These wall and ceiling-mounted devices make use of specific reflectors and a louvre design to distribute UV-C light at device level and above. Air is continuously disinfected as it passes through the unit via natural convection, while normal workplace activities continue in the rooms below.

A total of six depots have installed Philips UV-C disinfection devices to date.

Philips UV-C disinfection active air devices



Minimal disruption

Easy to install and maintain units. UV-C disinfection is contained within the unit, so there is no external exposure and the devices can be used with people present, even in UV-C sensitive locations.

Trusted technology

UV-C technology has been used for over 35 years.

Powerful protection

Ventilators actively pull air into the device, neutralizing bacteria, viruses and other microorganisms.

Philips UV-C disinfection upper air devices

Quiet disinfection

The UV-C rays are distributed at device level and above, allowing quiet disinfection of a large volume of air in the upper areas of a room.

Deactivates tested pathogens

UV-C light has been proven to effectively deactivate tested pathogens. Test results show that UV-C disinfection upper air luminaires inactivated 99.99% of SARS-COV-2 in the air of a room within 10 minutes.[1]

Safety in mind

Radiates UV-C in the upper areas, where it does not reach people[2]. As a result of this, normal activities can continue while the device is on.

Environmentally friendly

No ozone emissions during or after use.

A note on safety

Any UV-C installation must meet important safety requirements. Always seek professional advice before you purchase. UV-C lighting should only be installed by UV-C installers.

Learn more at www.philips.co.uk/uv-c

1. Tests were conducted with Philips UV-C disinfection upper air wall mounted luminaires. The overall dimensions of the test chamber were approximately 8'x8'x10', compliant with Biosafety Level 3 standards.
2. Philips UV-C disinfection upper air luminaire must only be sold and installed by professionals according to our stringent safety and legal requirements, set forth in the user manual and/or the mounting instructions.

www.philips.co.uk/uv-c