

[Our company](#)[Our offers](#)[Brands](#)[Innovation](#)[Sustainability](#)[Careers](#)[Contact](#)

Signify and Boston University validate effectiveness of Signify's UV-C light sources on inactivating the virus that causes COVID-19

June 16, 2020

- Test results show that the virus could no longer be detected after seconds of exposure
- Signify to make its UV-C lighting technology widely available to other lighting companies
- Signify has been at the forefront of UV technology for more than 35 years

Eindhoven, the Netherlands – [Signify](#) (Euronext: LIGHT), the world leader in lighting, together with the National Emerging Infectious Diseases Laboratories (NEIDL)¹ at Boston University in the US have conducted research that validates the effectiveness of Signify's UV-C light sources on the inactivation of SARS-CoV-2, the virus that causes COVID-19.

Since the start of the SARS CoV-2 pandemic, Dr. Anthony Griffiths, Associate Professor of Microbiology at Boston University School of Medicine and his team have been working on developing tools to support scientific advancement in this field.² During their research they have treated inoculated material with different doses of UV-C radiation coming from a Signify light source and assessed the inactivation capacity under various conditions. The team applied a dose of 5mJ/cm², resulting in a reduction of the SARS-CoV-2 virus of 99% in 6 seconds. Based on the data, it was determined that a dose of 22mJ/cm² will result in a reduction of 99.9999% in 25 seconds.³

[Cookie Preferences](#)

“ Our test results show that above a specific dose of UV-C radiation, viruses were completely inactivated: in a matter of seconds we could no longer detect any virus.”

Dr. Anthony Griffiths

Associate Professor of Microbiology at Boston University School of Medicine

“We’re very excited about these findings and hope that this will accelerate the development of products that can help limit the spread of COVID-19,” he added.

Signify is the leader in UV-C light sources and has been at the forefront of UV technology for more than 35 years. It has a proven track record of innovation in UV-C lighting, which is designed, manufactured and installed in line with the highest safety standards.

“ I’m very happy about the fruitful cooperation with Boston University in the fight against the coronavirus. Boston University has validated the effectiveness of our light sources as a preventive measure for companies and institutions as they seek ways to provide virus-free environments.”

Eric Rondolat

CEO of Signify

“Given the potential of the technology to aid the fight against the coronavirus, Signify will not keep the technology for its exclusive use but make it available to other lighting companies. To service the growing need for disinfection we will increase our production capacity multifold in the coming months,” he added.

¹ The NEIDL is a state-of-the-art research facility that encompasses significant containment laboratories at Biosafety Level -2, -3, and -4

² Dr. Griffiths’ team develops vaccines and therapeutics for Risk Group 3 and 4 viruses, which include organisms that can cause serious or deadly diseases in humans

³ Research variables are available upon request

For further information, please contact:

[Cookie Preferences](#)

Signify Corporate Communications

Elco van Groningen

Tel: +31 6 1086 5519

E-mail: elco.van.groningen@signify.com**Media Assets****Images****Documents**

About Signify

Signify (Euronext: LIGHT) is the world leader in lighting for professionals and consumers and lighting for the Internet of Things. Our Philips products, *Interact* connected lighting systems and data-enabled services, deliver business value and transform life in homes, buildings and public spaces. With 2019 sales of EUR 6.2 billion, we have approximately 36,000 employees and are present in over 70 countries. We unlock the extraordinary potential of light for brighter lives and a better world. We have been named *Industry Leader* in the Dow Jones Sustainability Index for three years in a row. News from Signify is located at the [Newsroom](#), [Twitter](#), [LinkedIn](#) and [Instagram](#). Information for investors can be found on the [Investor Relations](#) page.



More press releases

[Cookie Preferences](#)



JULY 17, 2020

Signify urges to adopt Global Lighting Association's UV-C Guidelines

[Cookie Preferences](#)



JUNE 25, 2020

All press releases →

Signify invests in UVC to meet growing disinfection demand

We'd love to hear from you

[Cookie Preferences](#)

UV-C Industrial Wand Testing Report

(Data according Signify latest report
with Boston Univeristy)

Testing Result for XBT LED System

	Signify and Boston Univesity's Research	Touching the surface	0.5'' distance	1'' distance
Testing Data	5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	45.2 mw/Cm2	12.84 mw/Cm2	2.91 mw/Cm2
Time to kill the Covid-19		0.66Seconds	2.34Seconds	10.31Seconds

Testing Result for XST LED System

	Signify and Boston Univesity's Research	Touching the surface	0.5'' distance	1'' distance
Testing Data	5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	56.2 mw/Cm2	14.84 mw/Cm2	3.33 mw/Cm2
Time to kill the Covid-19		0.53Seconds	2.02Seconds	9Seconds

UV-C Industrial Wand Testing Report

(Data according Philips latest research
with Boston University)



Testing Result for Single 25 LED System

	Signify and Boston University's Research 5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	Touching the surface	0.5'' distance	1'' distance
Testing Data		20.982 mw/Cm2	6.478 mw/Cm2	2.279 mw/Cm2
Time to kill the Covid-19		1.43 Seconds	4.63 Seconds	13.16 Seconds

Testing Result for Double 25 LED System

	Signify and Boston University's Research 5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	Touching the surface	0.5'' distance	1'' distance
Testing Data		29.2 mw/Cm2	8.757 mw/Cm2	4.553 mw/Cm2
Time to kill the Covid-19		1.03 Seconds	3.43 Seconds	6.59 Seconds

Testing Result for Single 64 LED System

	Signify and Boston University's Research 5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	Touching the surface	0.5'' distance	1'' distance
Testing Data		32.21 mw/Cm2	10.2 mw/Cm2	5.12 mw/Cm2
Time to kill the Covid-19		0.93 Seconds	2.94 Seconds	5.86 Seconds

Testing Result for Double 64 LED System

	Signify and Boston University's Research 5mJ (6Seconds) Equals to 30mw/Cm2 (1 second)	Touching the surface	0.5'' distance	1'' distance
Testing Data		33.41 mw/Cm2	10.89 mw/Cm2	5.44 mw/Cm2
Time to kill the Covid-19		0.90 Seconds	2.75 Seconds	5.51 Seconds