



Press Release

June 19, 2019

Signify launches Trulifi: the world's most reliable, high-speed commercial LiFi systems

- **Highly reliable, secure, high-speed wireless communication that leverages existing and future lighting infrastructure**
- **Aimed at professional markets, including offices, hospitality, retail, industry and healthcare**
- **Two new customers announced at launch**

Eindhoven, Netherlands – The worlds of lighting and telecommunications converged today. [Signify](#) (Euronext: LIGHT), the world leader in lighting, launched a new range of [LiFi systems](#) that includes the world's fastest and most reliable LiFi systems commercially available. The range, branded Trulifi, leverages existing and future professional luminaires. Instead of using radio signals (such as WiFi, 4G/5G, Bluetooth, etc.), Trulifi uses light waves to enable highly reliable, secure two-way wireless communications at speeds far above most conventional workplace wireless technologies.

Trulifi uses optical wireless transceiver technology built, or retrofitted, into Philips luminaires. This means customers don't have to rip and replace their existing lighting infrastructure to receive great quality light and wireless connectivity.

Trulifi overcomes the increasing congestion of the radio spectrum and is perfect for areas where radio frequencies don't work well, or at all, or are not permitted (see use cases in Notes to Editors).

The new range comprises Trulifi-enabled luminaires providing wireless connectivity at speeds up to 150 Megabits per second (Mbps) over large spaces, such as meeting rooms and office floors. There is seamless handover between each Trulifi-enabled luminaire enabling users to roam around. The speed is fast enough to stream simultaneously 30 1080p HDTV movies. A USB-access key, plugged into a laptop, is needed to receive the LiFi signal and acts as an emitter to send data back to the luminaire.

The Trulifi range also includes a fixed point-to-point system, up to 250 Mbps speed, which acts like a wireless cable, ideal for connecting devices. Potential applications include connecting robots or machines in radio frequency (RF) harsh environments like industrial plants, or hospitals where RF communications may not be permitted, or where there's a need to send and receive large data files securely and quickly.

"Trulifi underlines our strategy to unlock the potential of light to address new high-growth markets," explained Olivia Qiu, Chief Innovation Officer at Signify. "Through our global presence, large installed



base and industry knowledge, we'll help existing and new customers to leverage their lighting infrastructures to receive reliable, secure, high-speed wireless communication at a very competitive price-point. Wherever there's light, there can now be wireless communication."

Two new customers

Signify today announced two additional Trulifi customers

- [Globalworth](#), the largest institutional investor and office landlord in Poland and Romania, has installed 18 Trulifi-enabled Philips luminaires in three meeting rooms in its office in the Spektrum Tower in Warsaw, Poland, to provide reliable and extra-secure communications for its corporate clients.
- [Claerhout Communication Campus](#), a Belgian marketing and communications agency has retrofitted Trulifi into four connected Philips LED luminaires in a large meeting room in its office in Ghent, used by the company and its clients.

"We wanted good quality energy-efficient lighting and wireless connectivity capable of handling high resolution images, artwork and big data files. We've gone from offering our staff and clients 5 Mbps to a blistering 150 Mbps, and we can roam around freely as one light point hands off to another seamlessly. While it's encrypted, Trulifi adds an extra layer of security as light can't pass through walls - so what's in the room, stays in the room. This is truly game changing technology," said Christoph Ruys, Business Development Manager, Claerhout Communication Campus.

"The ability to integrate modern technology, such as Trulifi, in office buildings and workplaces, is a source of competitive advantage to attract tenants and increase the value of an asset. As a landlord, we are focused on providing top-notch solutions to our clients. We are also obliged to explore and test the latest technologies on the market. We are happy to be the first in Central Eastern Europe to implement Signify's Trulifi technology, setting new standards for the real estate industry," said Grzegorz Strutyński, Commercial Director of Globalworth.

"Signify is positioned to deliver on the promise of LiFi with attractively priced offerings that could help overcome the budget barrier for potential customers. Signify has also adopted the ITU G.9991 LiFi standard, which is aligned with the market's move toward increased standardization," said Krystal Maxwell, Senior Research Analyst, Navigant Research.

Notes to Editors

Trulifi range announced today:

- *Trulifi 6001*: LiFi system using visible light with a speed of up to 30 Mbps ([available since 2018](#)). Coverage beam of 2m diameter at 2m ceiling height using Trulifi-enabled Philips PowerBalance gen2 luminaire (3m diameter at 2.5m height).
- *Trulifi 6002 series* supports offices, healthcare, hospitality and transport markets. LiFi systems use two-way infrared light up to 150 Mbps up and down with a beam of approximately 2.2m diameter per transceiver at 2m height. They provide wireless connectivity in any lighting condition – even with the lights off.
- *Trulifi 6013*: LiFi system that uses two-way colored light to create a robust, secure 250 Mbps up and down fixed point-to-point connection with a beam of 20cm at 2m. Connects devices up to 8m.



All systems available globally now. Trulifi 6002 will be available in the US in Autumn, 2019.

Advantages and use cases of Trulifi:

Reliable:

- Trulifi overcomes issues of network overload, providing guaranteed bandwidth, even at busy times. The LiFi spectrum is more than 1,000 times the size of the radio spectrum so running out of spectrum is no longer an issue. Trulifi is ideal for busy areas such as multi-tenancy buildings, stations, airports and public venues such as concerts.
- Trulifi works well in places where radio frequencies are not permitted or may cause interference with other machines e.g. some schools, hospitals, aircraft, industrial plants, etc.
- It can also be used in areas where radio frequencies don't work well or at all e.g. underground

Secure:

- Trulifi is as reliable and secure as wired communications and ideally suited for applications where data is kept securely e.g. back office of financial institutions, government services, temporary workers such as audit and inspection teams.
- It uses AES 128 encryption, requires a USB access key, and has an extra-layer of security built-in as light waves cannot penetrate walls.

Fast:

- LiFi is the only wireless technology able to provide a guaranteed speed, as there is no interference with other radio communication systems.

-End-

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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 2018 sales of EUR 6.4 billion, we have approximately 29,000 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 two 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.