



Press Release

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Signify's new Philips Seacage 340W fish light helps to optimize growth results and reduce sea lice treatment up to 50%

Eindhoven, the Netherlands – [Signify](#) (Euronext: LIGHT), the world leader in lighting, today announced its latest innovation in aquaculture LED lighting. The company launched the new Philips Seacage 340W fish light which helps to optimize growth results for land- and marine-based cultivation of salmon and also shows proven results for other fast-growing fish species like seabass and seabream. The unique light distribution helps to prevent exposure to sea lice, reducing treatment up to 50%.

Light is a powerful tool for enhancing fish production and welfare. With an optimized contrast ratio, [Philips aquaculture LED lighting](#) supports a lower food conversion ratio and the right light distribution helps to prevent sea lice exposure. With smooth ramp up and low dim levels it also reduces stress levels for the fish, improving their welfare. The light spectrum is optimized for the distribution under water, the eye sensitivity of the fish and the pineal gland photoreceptors, maximizing the contribution towards growth at their best without maturing. Salmon are kept in a perpetual state of summer to prevent spawning and maintaining great taste and texture in the on-growing stage.

Unique in its kind is the light distribution, singly directed downwards in the seacages or tanks. The optimized light density in combination with the downward light beam ensures that the fish will swim deeper. And when installed below 5 meters, it reduces the need for sealice treatments as the fish will mostly swim below the sealice belt. This also lower the amount of electricity that is used and ensures that there's no light pollution created. In tanks, the light distribution addresses the need for lighting in every part of the tank ensuring light can reach where it needs to reach, without the fish or tiny particles obscuring the light.

Growing salmon with a high market value at low operational costs while maintaining constant production levels, is challenging. In Norwegian farmed salmon, delousing accounts for up to 10% of production cost. And, with fish feed making up 50% of operational costs, any reduction in food conversion ratio will result in more profit.

“The Philips Seacage 340W fish light is robust and easy to handle. On top of improving growth rates and significantly reducing sea lice exposure, our new energy efficient light lowers the food conversion ratio resulting in lower production cost. We help our customers to maintain constant production and at the same time improve the welfare and sustainability of the fish,” said Remco Lansbergen, General Manager Aquaculture at Signify.



Philips aquaculture lighting combines the latest LED technology with research expertise in fish physiology. Signify collaborates with leading universities and institutes by funding PhD and post-doctoral research projects. This includes research into on-growing at Sterling University, Scotland, and research into the effects of light spectrum, uniformity, intensity and dimming on salmon in the hatchery stages at Bergen University in Norway. The research findings show that the lighting helps to avoid stress in fish resulting in a 15% reduction in mortality from the hatchery to on-growing stage.

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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 2019 sales of EUR 6.2 billion, we have approximately 38,000 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.