

# PHILIPS

Aquaculture

AquaAdvance Sub  
680W Compact



# Advance your aquaculture

## Datasheet

The Philips AquaAdvance Sub 680W Compact luminaire is built on our heritage of more than 125 years of expertise in lighting. It is designed to support fish farms in the optimization of growing fish under unpredictable, harsh circumstances. It helps to optimize growth and reduces the maturation of salmon to nearly zero, while the fish experience no stress due to flicker free LEDs supported by a slow ramp up.

It combines the unique patented fish light spectrum with an unbeatable performance, supporting the deepest and biggest cages. Connected to the control system it provides unprecedented opportunities to utilize photoperiod illumination.

The downward facing light provides efficient light distribution by bringing light where the fish swim throughout the complete pen. This helps keeping your fish healthy below the sea lice zone. The luminaire enables you to improve your operations by reducing the maturation to zero, improving both growth & FCR while drastically reducing sea lice infestations.

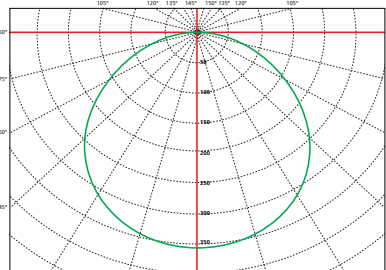
### Key benefits

- Maturation reduced to nearly zero
- Grow your fish faster
- Reduces the FCR (feed conversion ratio)
- Efficient light distribution
- Minimize exposure to sea lice
- Save energy cost
- Easy to handle and store
- Extreme durability
- Compact size

## Superior lighting technology improving your site operations

Our software tools supporting in commissioning and scheduling offer full visibility and control of the lights installed. You can securely access and monitor the individual light points, set schedules and adjust light levels on demand. A user-friendly dashboard provides a complete view on the installation and gives you real-time insights into the status of the lights. With the simple interface you can set light recipes optimizing the photoperiod benefits to the max.

## Specifications

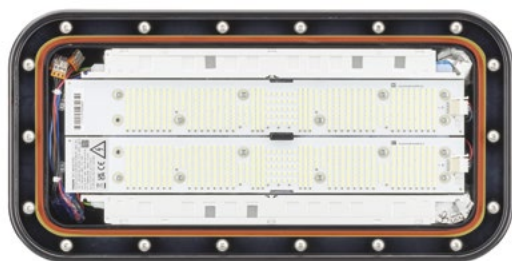
Type and product code	929002100743	AquaAdvance Sub 680W Compact 220V DALI
	929002100744	AquaAdvance Sub 680W Compact 220V DALI SR
Ingress protection code	IP68 [continuous submerged at max depth 20m]	
Mechanical impact protection code	IK08 [5 J vandal-protected]	
Light source	Integral LED module	
Power	680 W	
Luminous flux	102.000 lm	
Luminaire efficacy	150 lm/W	
Maintenance of Lm output	>90% at 70000 hours	
Dimming	1% - 100%	
Optics	Specific light distribution for underwater seawater application	
		

## Consistent operations year after year

Philips AquaAdvance Sub 680W Compact is extremely durable via the highest marine grade alloy constructions. It requires minimal hardware maintenance, no lamp replacements, and in case desired supported by easily replaceable cables and anodes. Software maintenance and upgrades are also done remotely.

Optical cover	PMMA, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	30.6 A
Inrush time	61 µs
Performance and operational voltage	202 - 254 Vac / 198 - 264 Hz
Performance and operational frequency	47.5 - 63 Hz / 45 - 64 Hz
Protection class IEC	[Safety class I]
Size (LxWxH)	47.5 X 23.7 X 11.1 CM
Weight luminaire	15 kg
Weight submerged	8 kg
Control system input	DALI by Philips Lighting Controlle
User interface	Philips Aquaculture User Interface
Material	Aluminum, marine water rated
Cable gland diameter	Ø 5.0 - 10.0 mm
Spare parts	Anode spare part 340/680 12NC: 929002100318
Recommended power cable	H07BQ-F
Certificates	CE, IP68

## Details



© 2022 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V. All other trademarks are owned by Signify Holding or their respective owners.

Document order number: 442295717753  
11/2022 | Data subject to change

For more information about Philips Aquaculture Solutions visit: [www.philips.com/aquaculture](http://www.philips.com/aquaculture)

Write us an e-mail: [aquaculture.info@signify.com](mailto:aquaculture.info@signify.com)