

PHILIPS

Aquaculture

FreshWater 125W
Fishlight UltraDim



Advance your aquaculture

Datasheet

Our cutting-edge land-based aquaculture lighting offer in combination with its control systems are made to help to push your production further. Fish have adapted to the changes in light in their natural environment by evolving a biological clock that is synchronized and driven by light stimuli from their environment. This clock entrains physiological and behavioral processes that impacts the growing and perception of the season. Equipped with our patented fish light spectrum we provide a powerful tool for enhancing the fish production and welfare.

The key challenge for land-based farming is to mimic nature in a fully controlled environment. Philips Aquaculture lights do what they are made to do; provide artificial light, replacing the sun by utilizing the unique fish light spectrum in an uniform fashion everywhere in the cage, avoiding shadows, flickering or other elements that create stress. Our unique electronics ensure the deepest dimming levels (0.3%) and provide gradual ramp up behavior. The Philips Aquaculture lighting system has been designed with focus on the animals needs first, making it perfectly suited to hatcheries and RAS facilities! Thanks to the superior software applications provided with the connected lighting infrastructure farmers can program cages in accordance to the growth stage while keeping control on the behavior.

Key benefits

- Synchronise light with the daily visual needs
- Optimise feeding and distribution of fish in the tank
- Reduce fish stress by gradually adjusting the light intensity and adopting sunrise/ sunset and moonlight simulation (0.3% dimming levels)
- Improve feed conversion rates utilizing the unique Philips Aquaculture lighting spectrum.
- Assist in the smoltification process
- Delay sexual maturation improving growth rates and harvest weight.
- Full control on the seasonal growth cycles
- Easy remote monitoring and control
- Tank & site specific lighting commissioning and scheduling
- Remote software maintenance and upgrading

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.

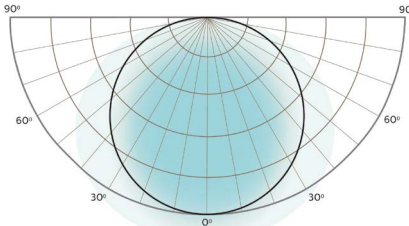
Consistent operations year after year

FreshWater 125W Fishlight UltraDim is extremely durable via the highest marine grade alloy constructions. It requires minimal to no hardware maintenance. Software maintenance and upgrades are also done remotely.

Specifications

Type	Freshwater 125W Fishlight UltraDim
Product code	929002100366 824110189751
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mechanical impact protection code	IK08 [5 J vandal-protected]

Light source	Integral LED module
Power	125 W
Luminous flux	16.500 lm
Deepest dimming level	0.3% dimming level
Luminaire efficacy	135 lm/W
Maintenance of Lm output	>90% at 70000 hours

Optics	Specific distribution for tanks 
--------	--

Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	62A @ 260 µs (time to 50% of Ipeak) = 16.1 Ams
Operating current	0.65A (0.8A max)
Protection class IEC	[Safety class I]

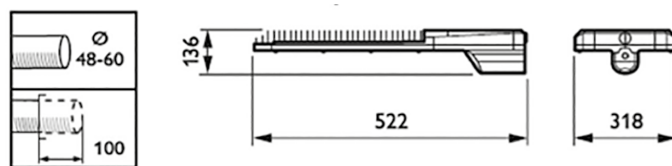
Weight	10.2 kg
Connector	Mains + DALI

Control system input	DALI by Philips Lighting Controller
User interface	Philips Aquaculture User Interface

Material	Housing, gear-cover, clip: high pressure die-casted aluminum, non- corrosive Glass: thermally hardened Gear tray: steel
Color	Canopy, cover, clip: gray (RAL7040)

Certificates	CE, IEC (60529)
--------------	-----------------

Dimensions



© 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: 929002100366 A
08/2022 | Data subject to change

For more information about Philips Aquaculture Solutions visit: www.philips.com/aquaculture

Write us an e-mail: aquaculture.info@signify.com