

PHILIPS

Aquaculture

FreshWater 250W 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

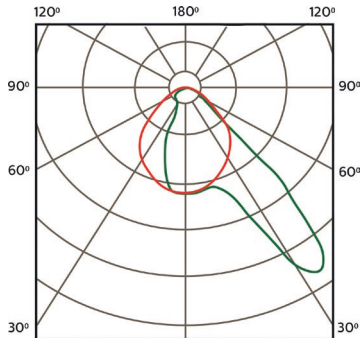
Our software tools supporting in commissioning and scheduling offer full visibility and control of the lights installed. You can securely access and monitor the individual light points, set schedules and adjust light levels on demand. A user-friendly dashboard provides a complete view on the installation 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 250W 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

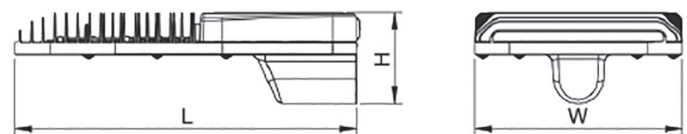
Type	FreshWater 250W Fishlight UltraDim
Product code	929002100367 824110189761
Ingress protection code	IP65 [Dust penetration-protected, jet-proof]
Mechanical impact protection code	IK08 [5 J vandal-protected]
Light source	Integral LED module
Power	250 W
Luminous flux	33.000 lm
Deepest dimming level	0.3% dimming level
Luminaire efficacy	135 lm/W
Maintenance of Lm output	>90% at 70000 hours

Optics	Specific light distribution for tank application 
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Optical cover	Glass, flat
Mains voltage	220-240 V / 50-60 Hz
Inrush current	112A @ 300 µs (time to 50% of Ipeak) = 33.6 Ams
Operating current	1.2A (1.5A max)
Protection class IEC	[Safety class I]
Weight	16.5 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



L x W x H = 853 x 318 x 136mm



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Document order number: 929002100367 A
08/2022 | Data subject to change

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