

The background of the advertisement is a vibrant, high-quality photograph of a coral reef. Various types of coral are visible, including branching corals in shades of purple and blue, and a large, rounded coral in the foreground. Several fish are swimming in the water, including a prominent yellow and black striped fish and a smaller blue and white fish. The lighting is bright and focused, highlighting the textures and colors of the coral and fish.

PHILIPS

CoralCare



It's **more** than light, because it's **more** **than an aquarium**

Innovative LED lighting designed to achieve
an optimal balance between coral growth
and natural reef appearance.

**Upgraded
optics and
spectrum!**

Specifications



Specifications

- 190W
- Dimmable
- 220-240V
- IP65
- 50-60 Hz
- 10 kg

Based on user experience tests with aquaria depths up to 100cm:

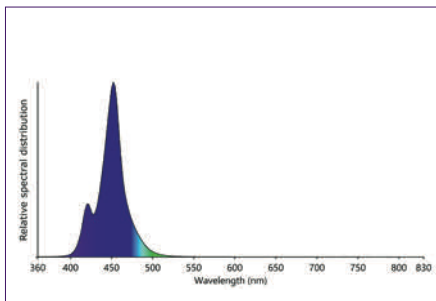
- Surface coverage (normal) 100 x 80cm
- Surface coverage (extreme) 80 x 60cm
- Min. distance between fixture and water surface: 15cm

After 1 hour stabilization time

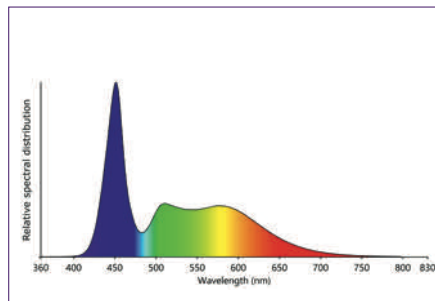
Maximum current per channel	600mA
Luminous flux	9172 Lm
Irradiance	63W optical power
Color temperature	6500K up to saturated blue
WPE (system)	34%
100% Light output color point	X=0.205, Y=0.135

LED brand	Lumileds
LED #	104
LED type	32x Luxeon Tx 6500K/70
	40x Luxeon T Royal Blue
	8x Luxeon UV 420nm
	8x Luxeon Rebel Cyan
	8x Luxeon Rebel Phosphor Converted Amber
	8x Luxeon Z Blue
Channel 1	32x Luxeon T Royal Blue
	8x Luxeon UV 420nm
	8x Luxeon Z Blue
Channel 2	32x Luxeon Tx 6500K/70
	8x Luxeon Rebel Cyan
	8 x Luxeon Rebel Phosphor Converted Amber
	8x Luxeon T Royal Blue

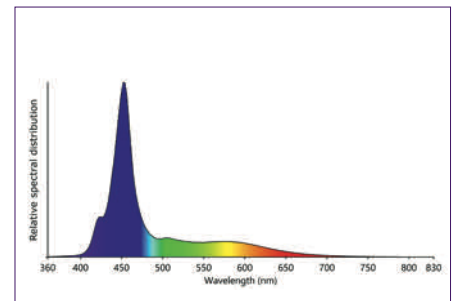
Spectral and Light distribution



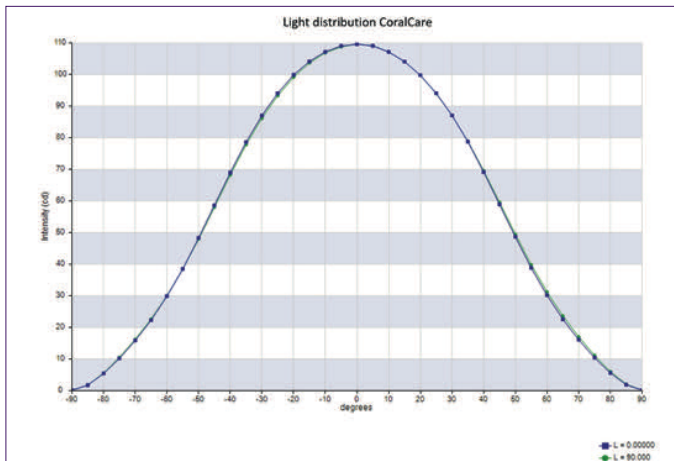
Spectrum – channel 1



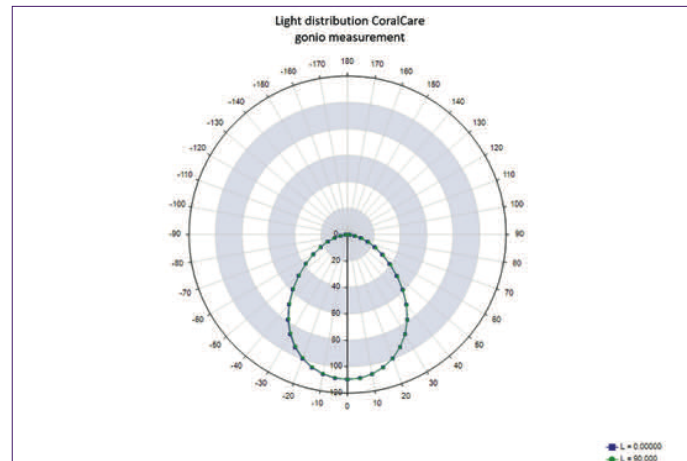
Spectrum – channel 2



Spectrum – 2 channels combined



Light distribution

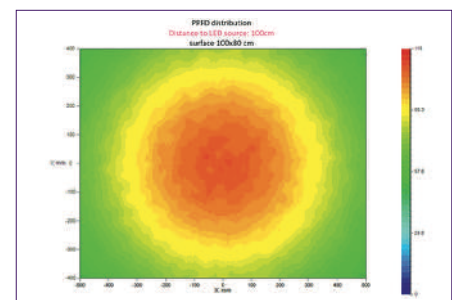
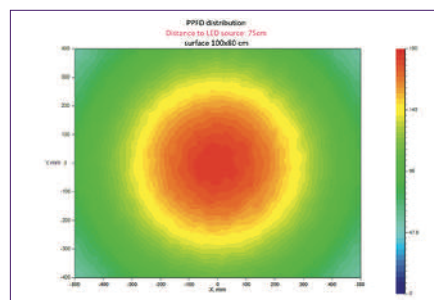
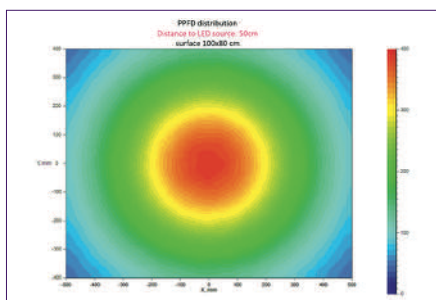
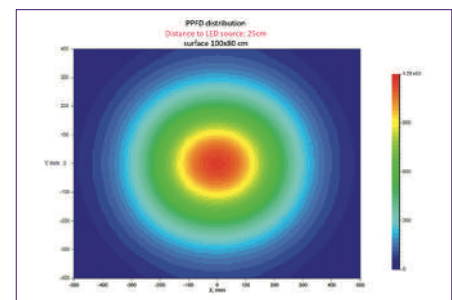
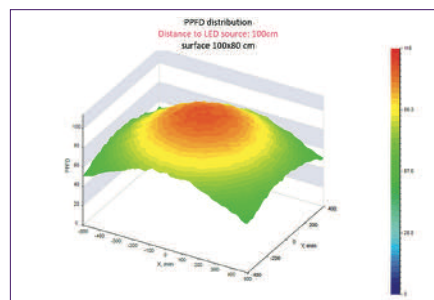
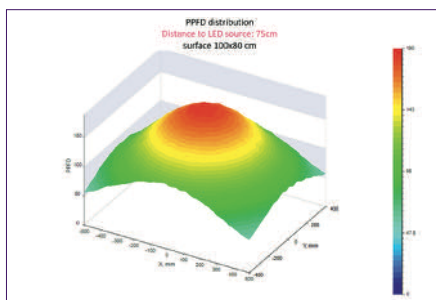
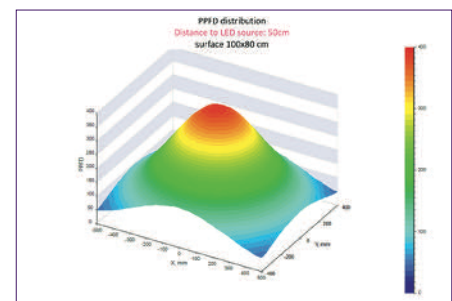
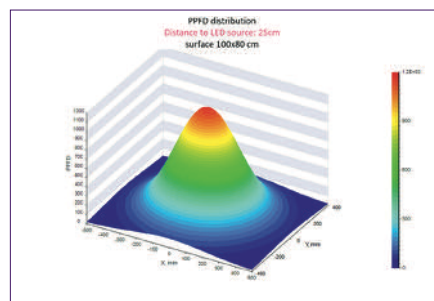
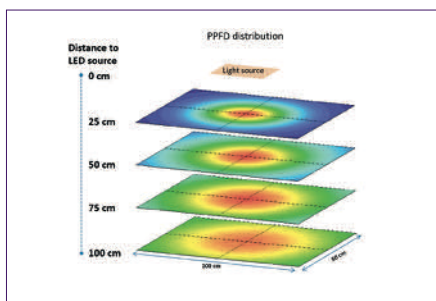


Light distribution – Gonio

PAR plots and landscape free air

Modeled in free air condition

PPFD Landscape 100x80cm observed at 25, 50, 75 and 100cm distance to source



PAR plots and landscape in aquarium

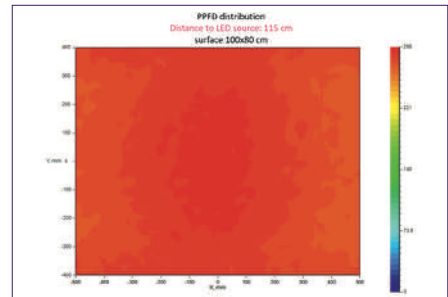
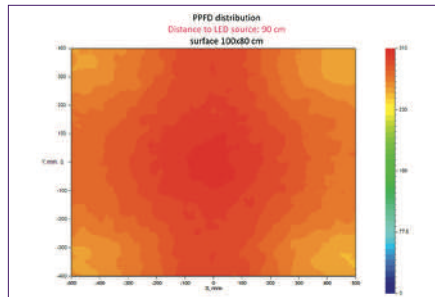
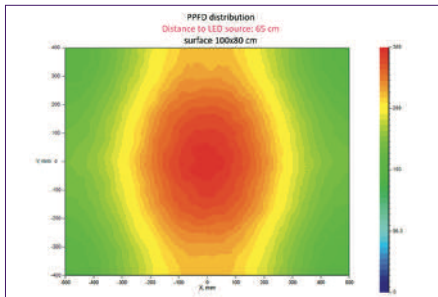
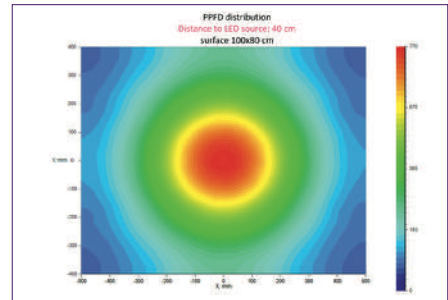
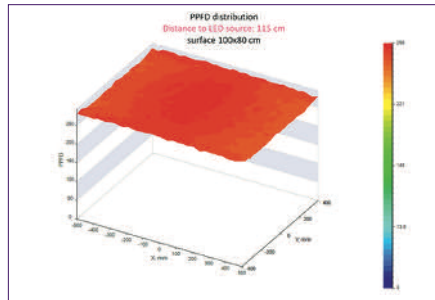
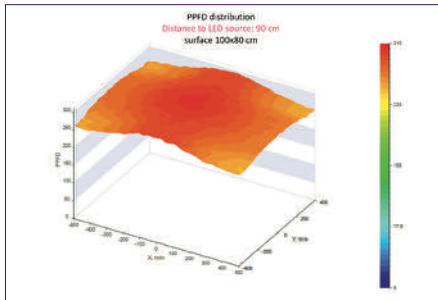
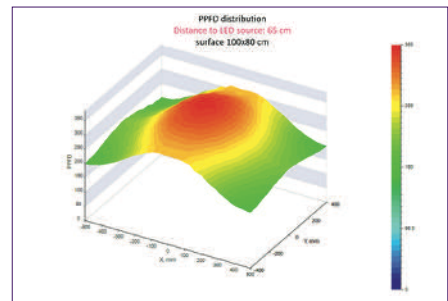
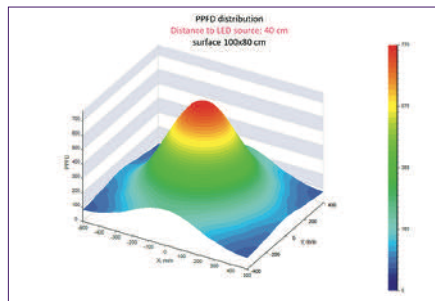
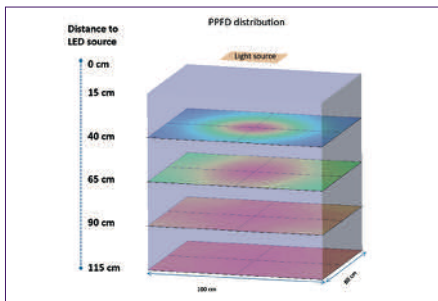
Modeled with defined water volume (100x100x80cm - HxWxD)

Assumed smooth surfaces (no wave effects)

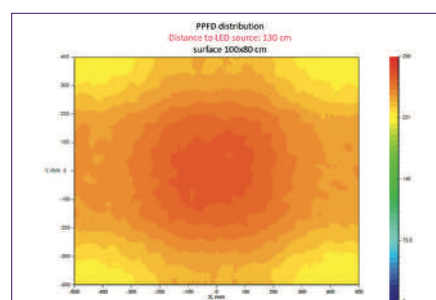
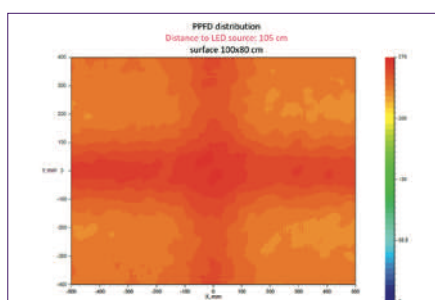
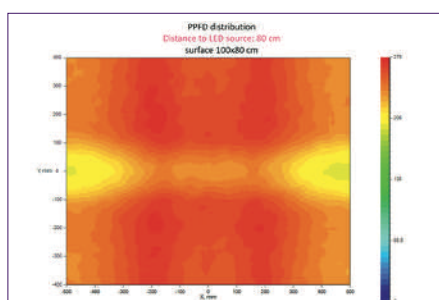
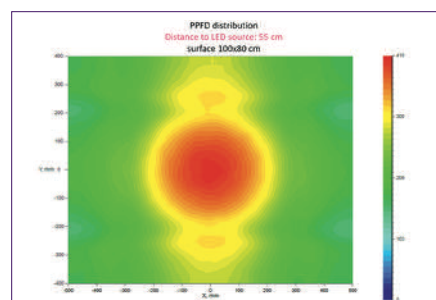
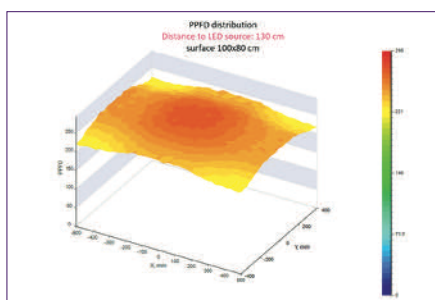
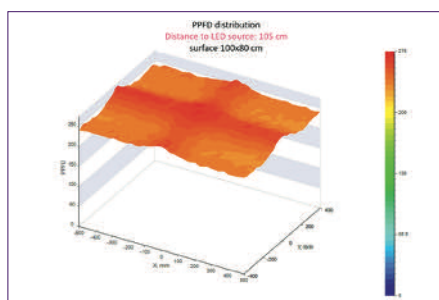
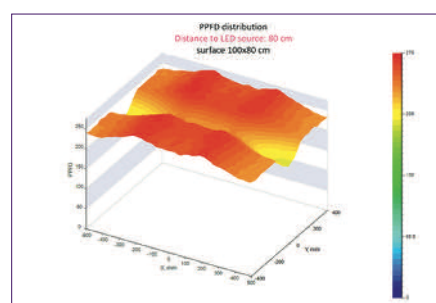
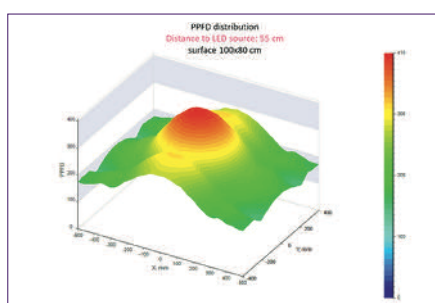
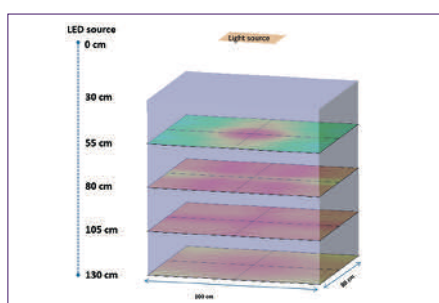
Bottom side of aquarium is 100% absorbing (no upward reflections)

PPFD landscape 100x80cm observed at 25, 50, 75 and 100cm water depth

- Distance between lamp and water surface: 15cm



- Distance between lamp and water surface: 30cm







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