PHILIPS

CoralCare Gen2

Technical datasheet

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

Innovative LED lighting, designed to achieve an ideal balance of coral growth, natural reef appearance and natural light patterns.

Specifications

Specifications:

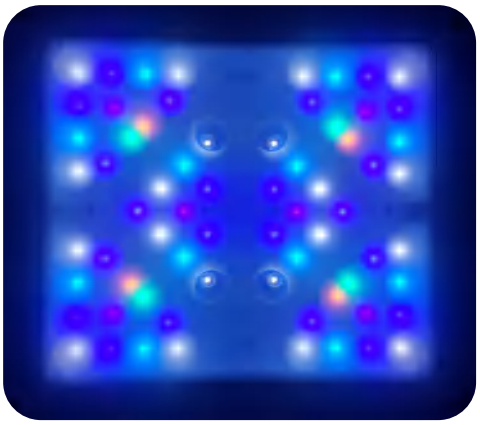
- 170W
- 120V (US)
- 220-240V (Europe)
- 50-60 Hz
- Dimmable
- IP65
- 7 kg

Based on user experience tests with aquaria depths up to 1m / 39.37"/po:

- Surface coverage SPS reef: 80x60cm / 31.50x23.62"/po
- Surface coverage LPS reef: 90x70cm / 35.43x27.56"/po
- Surface coverage mixed reef: 100x80cm / 39.37x31.50"/po
- Min. distance between fixture and water surface: 15cm / 5.91"/po

After 1 hour stabilization time (EU version measured in integrating sphere and gonio meter)

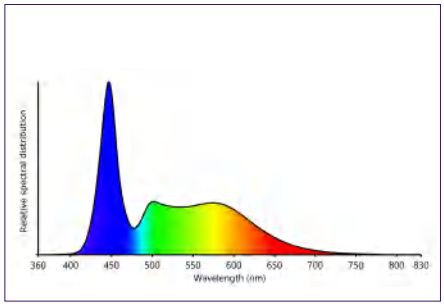
Maximum current per LED (channel)	738mA
Luminous flux	7706 Lm
Irradiance	48.6W optical power
Color temperature	from natural daylight to saturated blue
WPE (system)	29%
100% Light output color point	X=0.209, Y=0.153



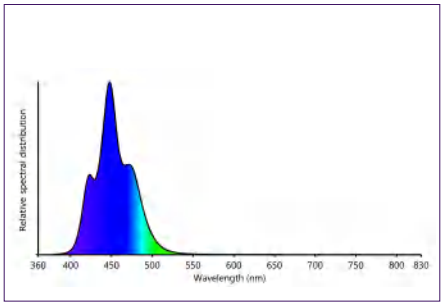
LED brand	Lumileds
LED #	68
LED type	12x Luxeon C Blue 470nm
	22x Luxeon C Royal Blue 450nm
	4x Luxeon C PC-Amber
	4x Luxeon C Cyan 490nm
	6x Luxeon UV U1 415nm
	20x Luxeon V2 6500k
Channel 1	4x Luxeon C PC-Amber
	4x Luxeon C Cyan 490nm
	20x Luxeon V2 6500k
	6x Luxeon C Royal Blue 450nm
Channel 2	12x Luxeon C Blue 470nm
	6x Luxeon UV U1 415nm
	16x Luxeon C Royal Blue 450nm

CoralCare

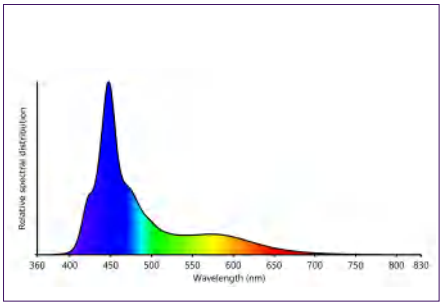
Spectral and **Light** distribution



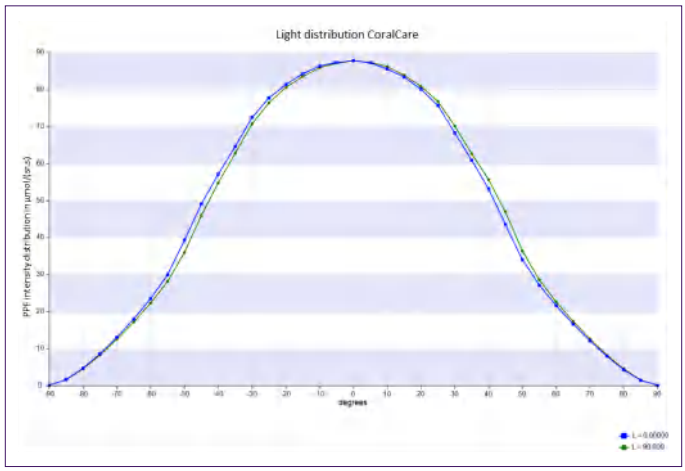
Spectrum – channel 1



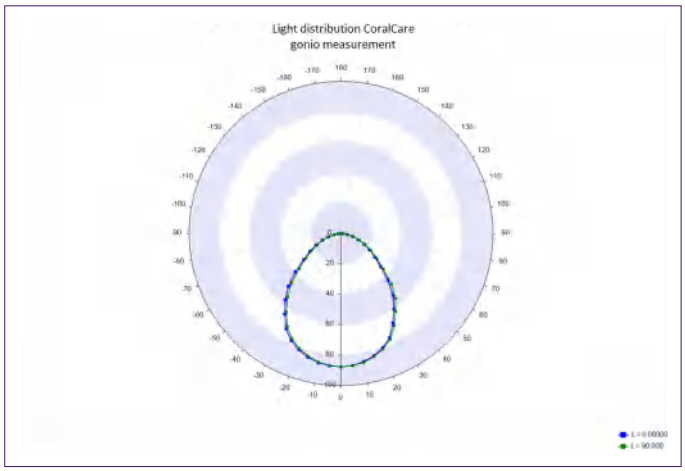
Spectrum – channel 2



Spectrum – 2 channels combined



Light distribution



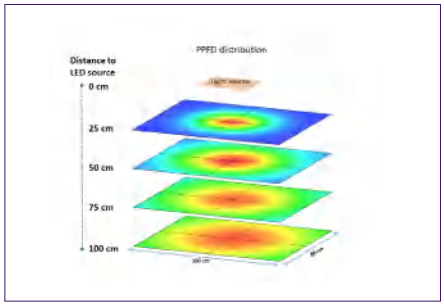
Light distribution – Gonio

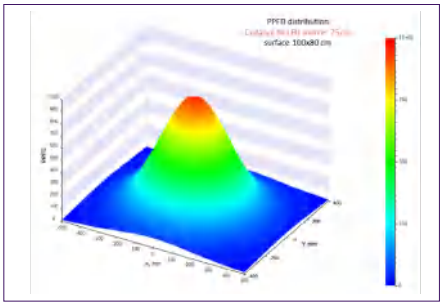
PAR plots and **landspace** free air

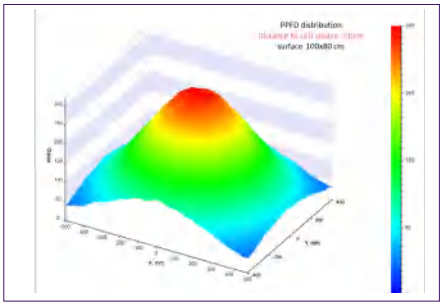
Modeled in free air condition

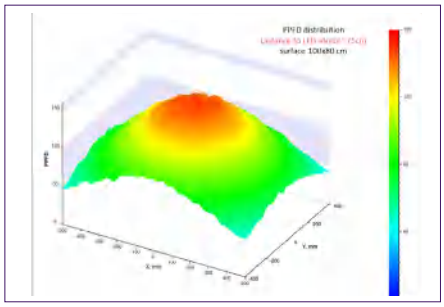
PPFD Landscape 100x80cm (39.37x31.50”/po) observed

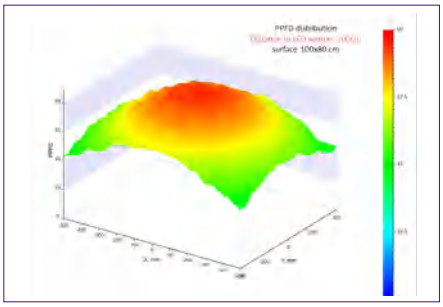
at 25, 50, 75 and 100cm (9.84, 19.69, 29.53 and 39.37”/po) distance to source

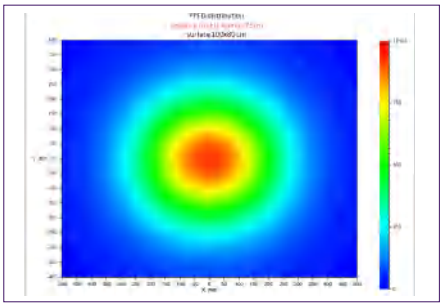


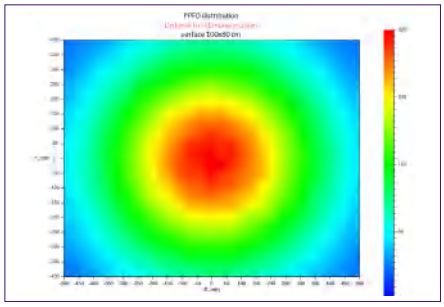


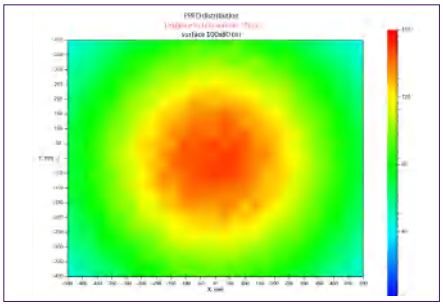


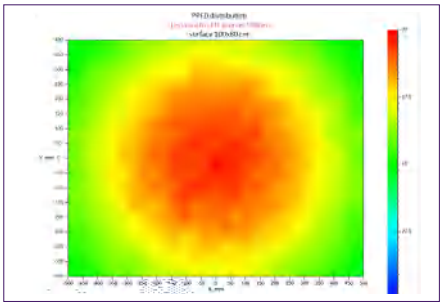












PAR plots and **landspace** in aquarium

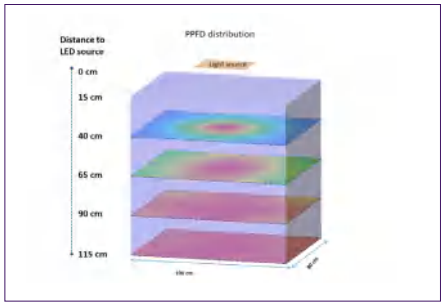
Modeled with defined water volume (100x100x80cm (39.37x39.37x31.50”/po) - HxWxD)

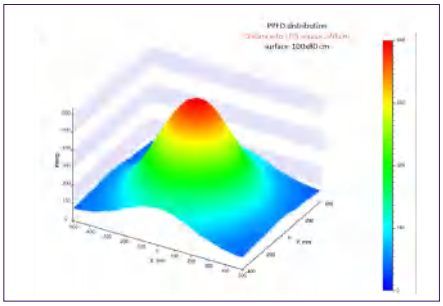
Assumed smooth surfaces (no wave effects)

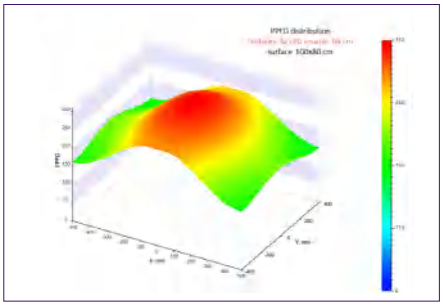
Bottom side of aquarium is 100% absorbing (no upward reflections)

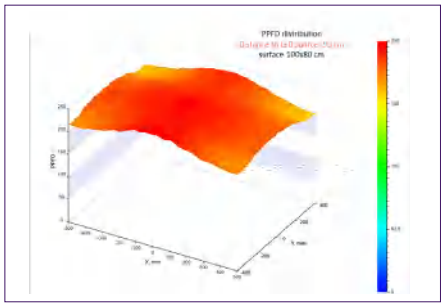
PPFD landscape 100x80cm (39.37x31.50”/po) observed at
25, 50, 75 and 100cm (9.84, 19.69, 29.53 and 39.37”/po) water depth

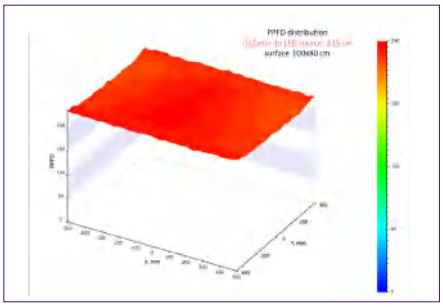
- Distance between lamp and water surface: 15cm (5.90”/po)

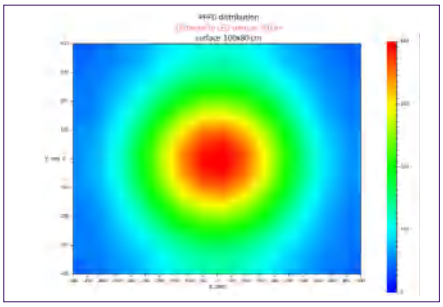


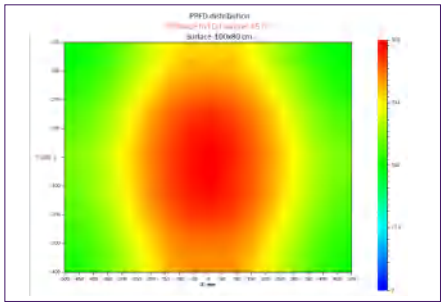


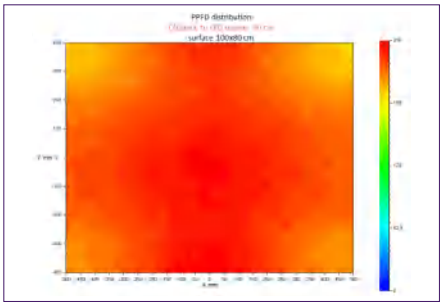


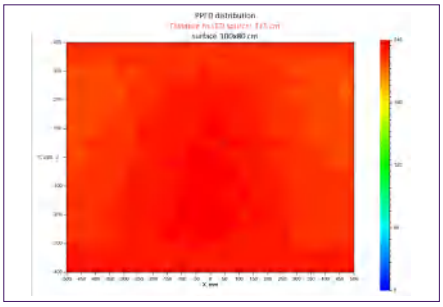




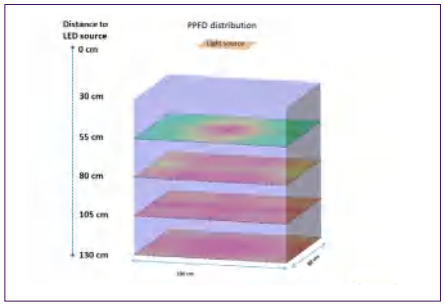


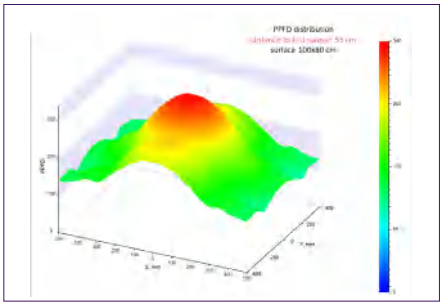


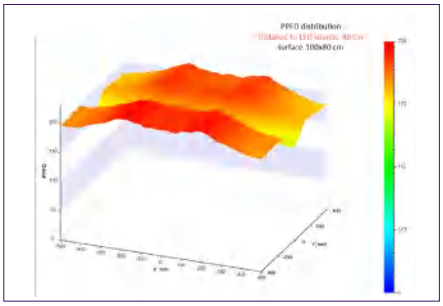


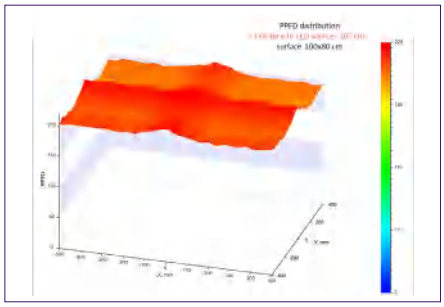


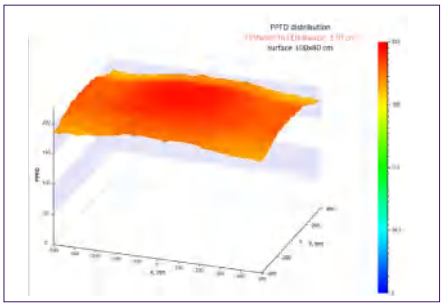
• Distance between lamp and water surface: 30cm (11.81”/po)

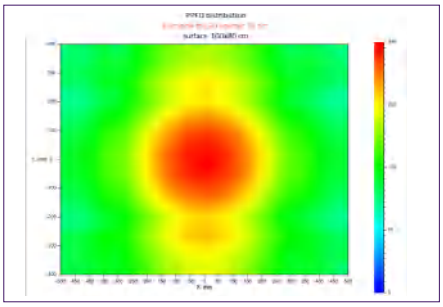


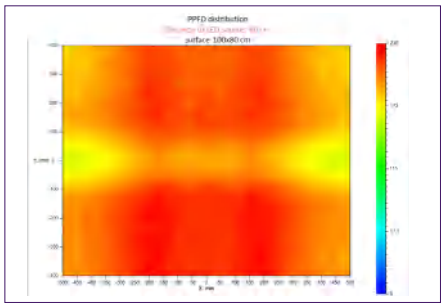


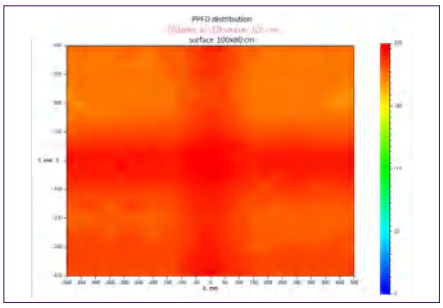


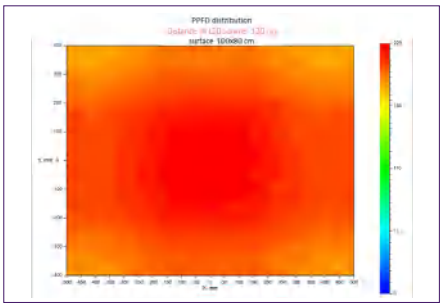












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