

A vibrant coral reef aquarium scene. The top half of the image is a dark blue banner with white text. Below the banner, the aquarium is filled with various fish and colorful coral. In the foreground, a large blue tang with white stripes and a small orange clownfish are visible. Other fish include a yellow tang, a blue tang, and a small orange clownfish. The coral is diverse, with green, yellow, and orange varieties. The background shows more coral and fish, creating a deep, colorful underwater environment.

Orphek

Aquarium LED Lighting

About Us

Orphek Aquarium LED Lighting

Orphek is an international company developing and selling a range of LED aquarium lighting solutions with a long settled worldwide reputation. We provide perfect intensity/efficiency and spectrums to all shapes, sizes, depths of aquariums to:

- Private tanks in Homes & Offices
- Public Aquariums, Zoos & Aquatic Venues
- Palaces, Hotels, Casinos
- Airports, Shopping Malls
- Hospitals / Health Centers and Resorts / Spas
- Universities & Research / Educational Centers
- Conservation / Rescue / Care / Rehabilitation Centers
- Coral farms and Shops

Orphek Combines a Passion for Nature, Technology and Lighting Design.

Orphek is the leading company in the field of LED lights for public venues with the widest IP65 - 67 line of products and a true passion for lighting design.

The Company develops products and solutions that answer to the needs of the living creatures in captive aquariums, delivering perfect integration of light sources with Nature and all architectural elements of any project, no matter how complex they are and the challenges they face.

"Together we protect Nature's Biodiversity for generations to come."

Loving Nature as we do and being environment sustainably conscious, Orphek only develops products with a significant positive impact in everyone's life, therefore we only offer the best environmentally friendly solutions that combine the most advanced & efficient technology and, most importantly, aiming the well-being of animals and humans all together, for now and for generations to come.

For Orphek detailed info & history: orphek.com/about

Orphek & Public Venues

Lighting Design Projects.

Just like the facilities and the living creatures of your business, lighting is an asset that should be carefully considered for investment with the right design and equipment.

The large majority of our impressions of the world come through our eyes, therefore the perfect lighting design project should enable spatial perception, but needs to go way beyond!

1. That means needing to create, transform and increase:

- Visibility and atmosphere / mood and satisfaction.
- Task performance and safety / social interaction and sales.

2. Lighting design projects also help venues to tell stories about their offered spaces:

Whether the narrative is focused on a relaxing & stress reducing marine aquarium in a lobby; an immersive journey into the wonders of Nature of a zoo or public aquarium; or even the conservation of wildlife and research of endangered species - **these stories can only become genuine and memorable with the perfect light design.**

Expertise.

Orphek expertise is to develop, customize and deliver LED lighting solutions for lighting designs projects involving any biological need of a wide range of organisms coming from different types of habitat and geographic zones, while meeting both the architectural aesthetics desired and entrepreneurship budgets and goals.

Our vast array of LED lighting solutions & customizations:

- Provide more natural, easy-to-adapt and healthier environment to the curated inhabitants.
- Enable you create a memorable genuine experience to your visitors and healthy, safe environment to your staff.
- Provide the natural look of your venues when exhibited in virtual reality and videos.
- Help to prevent, reduce and overcome maintenance challenges and costs.
- Facilitate to meet energy consumption/reduction strategies goals.

Creativity, Innovation, Technology Development & Customization.

Creating ecosystems with genuine biological narrative, either small or gigantic, simple or complex, implies challenging responsibilities for adaptation, conservation and welfare of the animals in the captive environments created. It also brings challenging financial investment in structure and maintenance.

Multiply the existing challenges when introducing centers for animal rescue, care and rehabilitation; scientific research, education and conservation...

And even more with behind-the-scenes and virtual tours that are in high demand these days!

Solutions.

Understanding the challenges of having a wide range of organisms coming from different types of habitat and geographic zones, Orphek develops all its LED lighting solutions to create a more natural, easy-to-adapt and healthier environment, while enhancing the beauty of the areas displayed while rendering lights that will render a memorable and genuine atmosphere to each experience and exhibit.

By developing products specifically for public venues, Orphek delivers perfect lights build only with the best quality raw materials and sealant solutions, offering LED light products that are solid, resilient and build to excel in performance even in extreme environments.

All our LED lighting solutions are easy to install and to perform maintenance. Also, helping to prevent and overcome maintenance problems, Orphek provides products that meet the temperature requirements of each tank, avoiding over heating or chilling problems.

Orphek understands the challenges to meet energy consumption/reduction strategies, therefore its quality control systems guarantee that all our LED lighting solutions will provide extraordinary energy efficiency, minimum environmental damage with a considerable annual reduction of energy consumption.

Features:

- Heavily build, anti-rust and anti-corrosion.
 - Come with silicon seal & waterproof connectors and cable extensions.
 - Have separated power supply and control away from water / humid areas.
 - Come with Plug & Play friendly technology with effortless part's replacement for simple and easy light maintenance.
 - Have optimal heat dissipation and thermal solutions for heat management.
- *Each line offers its own safety & endurance features and technological innovations according to its applications.

Innovations: Augmented and Virtual Reality, Video Tours and On-line Live Shows.

AR and VR, video tours and on-line live shows are excellent solutions to continue to engage schools and families.

Innovating, Orphek has been researching and developing customized products to provide the natural look that aquariums have in reality, while exhibited in augmented and virtual reality, video tours and on-line live shows.

Services.

Orphek provides free consulting for correct choice of lightening, installation and spectrum that will make all the difference for both visitors and species.

Orphek LED Lighting solutions offers customization of spectrums to meet all the specifications of each project.

Access detailed info about Orphek LED Lighting for all public venues:

orphek.com/about/led-lighting-for-public-aquarium/

Latest Groundbreaking Technology:

Orphek latest launch - Atlantik iCon series - brings a Lunar program that will mimic an entire natural lunar light cycle for better coral spawning.

The 1000% dimming control will also ensure that corals and other photosynthetic animals get the proper rest and can process their night time biological functions.

Orphek is the first and only company in the world offering 1000% dimming control system 0-100% and 0.1-1% for Moon Cycle!

To read more about it: [Orphek advanced dimming control](#)

Partnerships:

Nausicaá Public Aquarium (Boulogne-sur-Mer, France)

Chengdu Public Aquarium (Chengdu, China)

Burj Al Arab Aquariums (Dubai, UAE)

The Lost Chambers Aquarium & The Ambassador Lagoon (Dubai, UAE)

National Aquarium Abu Dhabi (Abu Dhabi, UAE)

The Kuwait Scientific Center TSCK (Kuwait)

Oman Aquarium (Muscat, Oman)

National Aquarium Den Blå Planet (Kastrup, Denmark)

Cairns Public Aquarium (Cairns, Australia)

The Minderoo Foundation Exmouth Research Lab (Exmouth, Australia)

James Cook University Aquarium (Townsville, Australia)

XPLORE Entertainment Center (Athens, Greece)

Palma Aquarium (Palma de Maiorca, Spain)

Tynemouth Aquarium (Tynemouth, UK)

The Ripley's Aquarium of Canada (Toronto, Canada)

Georgia Aquarium (Atlanta, Georgia, USA)

North Carolina Public Aquarium (North Carolina, USA)

Loveland Living Planet Aquarium (Utah, USA)

Albuquerque BioNational Aquarium (New Mexico, USA)

Cameroon Park Zoo (Waco, Texas, USA)

Atlantis Aquarium (Paradise Islands, Bahamas)

Orphek Products

Atlantik iCon Series

ATLANTIK iCON / [\(ACCESS PRODUCT PAGE\)](#)

ATLANTIK iCON COMPACT / [\(ACCESS PRODUCT PAGE\)](#)

OR3 LED Bars (60/90/120/150)

OR3 BLUE PLUS

OR3 SKY BLUE

OR3 REEF DAY PLUS

OR3 UV/VIOLET

OR3 VIOLET REEF DAY

OR3 FRESH WATER PLANTED

[\(ACCESS PRODUCT PAGE\)](#)

Amazonas Series

AMAZONAS 80 / [\(ACCESS PRODUCT PAGE\)](#)

AMAZONAS 320 / [\(ACCESS PRODUCT PAGE\)](#)

AMAZONAS 500 / [\(ACCESS PRODUCT PAGE\)](#)

AMAZONAS 960 iCON / [\(ACCESS PRODUCT PAGE\)](#)

Why Amazonas are the Best LED Light Solutions for Public Venues

Our Amazonas line is designed to deliver LED lights that answers to the needs of your project.

Orphek has developed the Amazonas series to provide the natural look of your venues even when exhibited in virtual reality and videos, so visitors will really feel engaged and satisfied with their virtual tours experiences.

In this line there are 4 products available: Amazonas 80, 320, 500 and 960 iCon

Each product suits different sizes and depths for different habitats and places. Orphek is more than happy to provide assistance in finding the best Amazonas for you!

Taking outdoors infrastructures as an example, Amazonas will be the perfect LED lighting solutions for both fresh water and marine habitats, such as themed feeding stations and touch/discovery zones; photo zones, themed handrails; rock piers, suspended bridges or vines, pools, terraced pools, natural dividers between exhibitions, rock walls and sandstone block walls.

If we are talking about indoors facilities, Amazonas are excellent to light and enhance beauty of sculptures, statues, ruins, temples and any other decoration within the habitats.

They are also perfect to focus interest in bubble effect coming from decorating pieces, themed feeding stations and photo zones, submarines, pirate boats or boats of any kind.

Since they are versatile, with 3 options of lens, they are also incredible for illuminating swim through tunnels and walk in tunnels; floors, rock based and formations; exhibit walls; themed fishing boats, submarines; and coastal trees.

You can also use Amazonas to give the natural/health look to tanks of any shape, either placed in closed areas or canopies, such as gallery displays. Even elevators...

They can also be applied to make habitats such as mangroves, containing sand shorelines, mud flats, sand bars, small to medium islands and over the head mangrove roots.

Not to mention that Amazonas are the perfect solution for paludarium tanks including both water and land features. Since semi-aquatic habitats house a broad range of terrestrial, aquatic and semi-aquatic plants and animals, also mixing land and water habitats in the same tank/area, you will need a LED solution that renders the perfect spectrum for both.

About location: Amazonas can be used for floor, background, over the head, suspended areas including murals, hear walls, elevated stations... You name it! They are developed for both under the water viewing or over the surface viewing.

They are also ideal for Penguin nesting areas, behind the scenes, back stage tours, animal shelters and special terrariums.

These are just some of the applications that make Orphek Amazonas LED Light series the best for public venues.

You can contact us if you have different projects and ideas!

Atlantik iCon

Reef Aquarium LED Light with Intelligent Connectivity

Take a leap into the future with Orphek Atlantik iCon LED Light and get optimal coral growth & color.

High Quality
Aluminum Housing

Glass Lens

18mm Acrylic Cover

5w Dual Chip LEDs

The new generation, the Atlantik iCon, comes with a number of significant improvements and valuable changes.

Applications

- ✓ Public venues / Private aquariums
- ✓ Indoors - Natural / Synthetic compositions
- ✓ SPS / LPS / Soft coral reef tanks
- ✓ Perfect for tanks with full SPS / LPS
40" x 28" / 101.6 x 71.1cm
- ✓ Perfect for marine / Fish / Soft coral tanks
47.2" x 31.4" / 120 x 80cm
- ✓ Stores, coral farms & conservation centers

Features

- ✓ Most natural appearance 10K to 50K
- ✓ 1000% dimming control system
- ✓ Wide spectrum from UV (380 - 740nm)
- ✓ 26 glass lens for all UV / Violet LEDs
- ✓ Multiple mounting options
- ✓ 4 speed controllable fans
- ✓ Water resistant

New Technology New App

Developed with a friendly technology both easy and fun to use, the new Orphek App is compatible with both IOS and Android, Cloud support, voice control and many other cool features!

Features

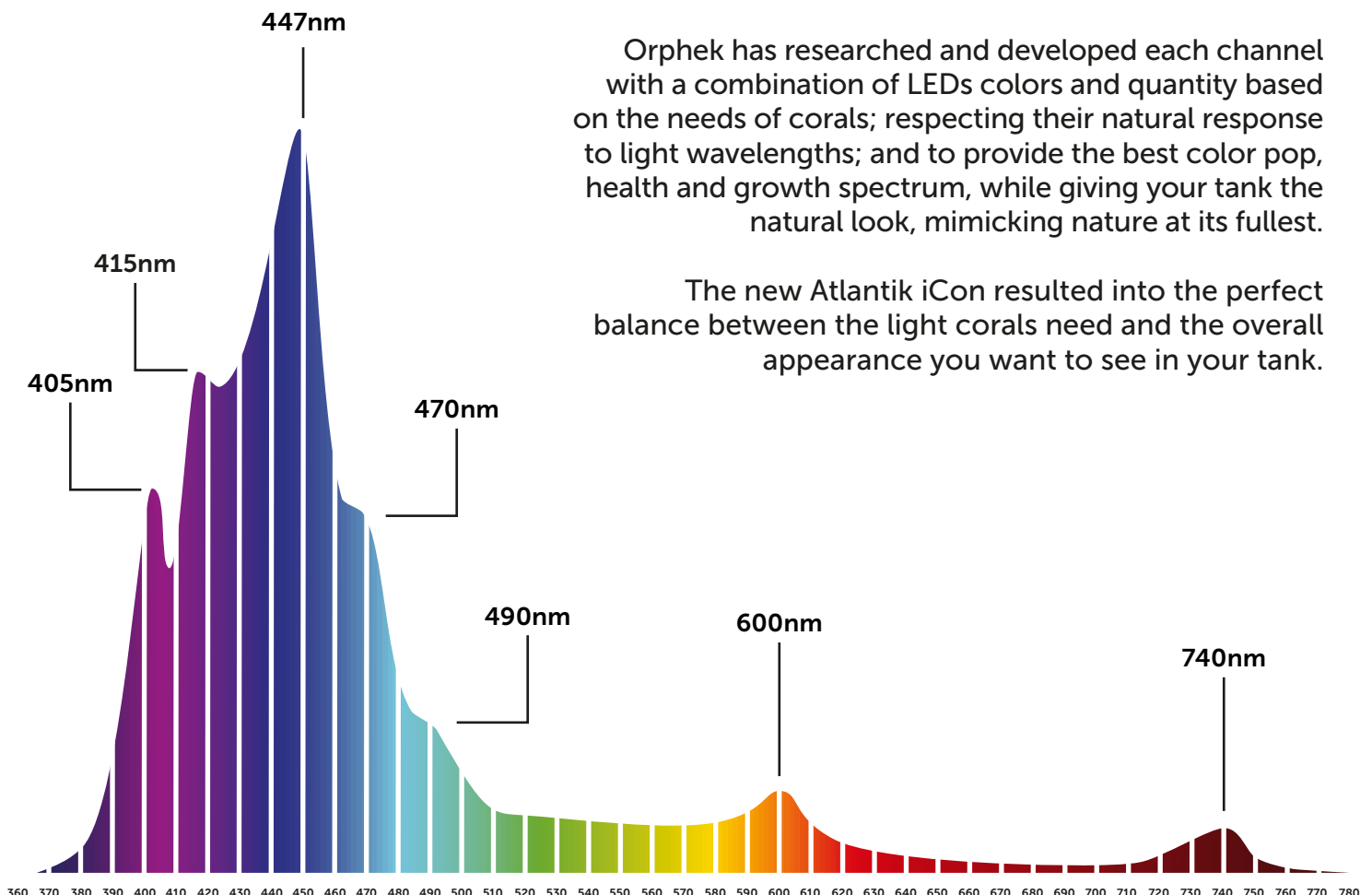
- ✓ 6 fully programmable channels
- ✓ Moon cycle, clouds, acclimation, jelly fish modes
- ✓ Wireless remote and local programming
- ✓ Ability to program multiple units
- ✓ Optimal pre-installed program included (Helius)
- ✓ Wi-Fi / Bluetooth / Hotspot Sharing / Cloud



The Spectrum

Orphek has researched and developed each channel with a combination of LEDs colors and quantity based on the needs of corals; respecting their natural response to light wavelengths; and to provide the best color pop, health and growth spectrum, while giving your tank the natural look, mimicking nature at its fullest.

The new Atlantik iCon resulted into the perfect balance between the light corals need and the overall appearance you want to see in your tank.

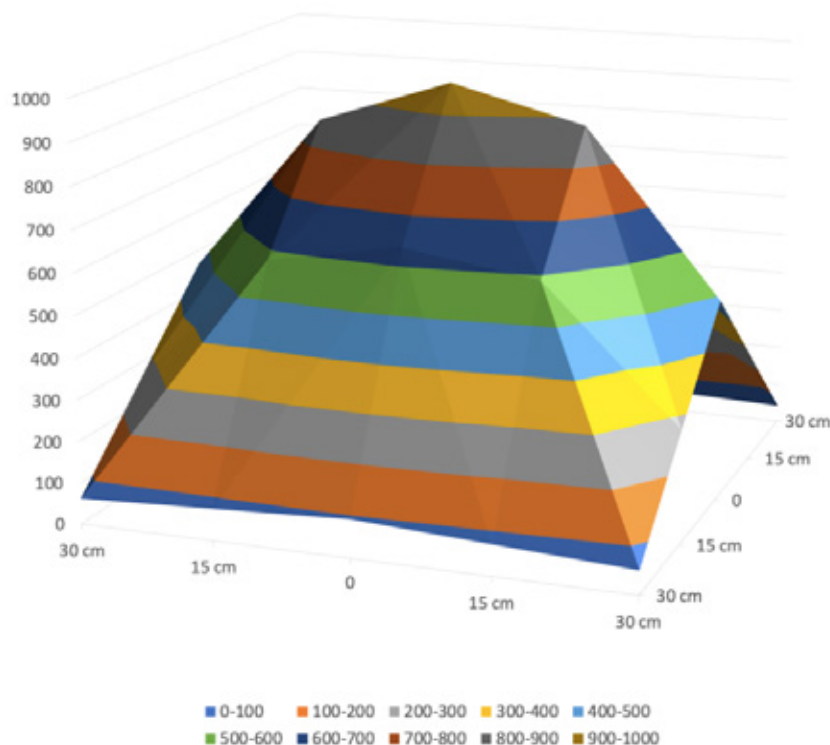


The PAR

Atlantik iCon is truly one of a kind and stands out from the rest with a Highest PAR value. It's certainly in a league of its own.

The peak value is incredibly high, 1000 PAR at 37cm / 14.56"

*The instrument used in this measurement is calibrated to work underwater



What's in the box



1. Atlantik iCon

2. Power Cord with Waterproof Connector

3. Stainless Steel Hanging Kit

4. Antenna

5. Power Supply

2x steel cables 250mm / 9.84"
1x steel cable 1.8m / 70.86"

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
218-235W	AC 100-240V	DC 48V	97%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (L x W x H)
Mean Well: HLG-240H-48A	7.0kg / 15.4lbs	61.5cm x 23.8cm x 53.6cm 24.21" x 9.37" x 2.11"



[MORE INFO](#)

Atlantik iCon Compact

The Compact Reef Aquarium LED Light with Intelligent Connectivity

Take a leap into the future with the compact version of the Atlantik iCon LED Light and get optimal coral growth & color.



The new generation, the Atlantik iCon Compact LED Light, also comes with a number of significant improvements and valuable changes.

Applications

- ✓ Public venues / Private aquariums
- ✓ Indoors - Natural / Synthetic compositions
- ✓ SPS / LPS / Soft coral reef tanks
- ✓ Perfect for tanks with full SPS / LPS 24" x 24" / 60 x 60cm
- ✓ Perfect for marine / Fish / Soft coral tanks with 35" x 27" / 90 x 70cm
- ✓ Stores, coral farms & conservation centers

Features

- ✓ Most natural appearance 10K to 50K
- ✓ 1000% dimming control system
- ✓ Wide spectrum from UV (380 - 740nm)
- ✓ 14 glass lens for all UV / Violet LEDs
- ✓ Multiple mounting options
- ✓ 2 speed controllable fans
- ✓ Water resistant

New Technology New App

Developed with a friendly technology both easy and fun to use, the new Orphek App is compatible with both IOS and Android, Cloud support, voice control and many other cool features!

Features

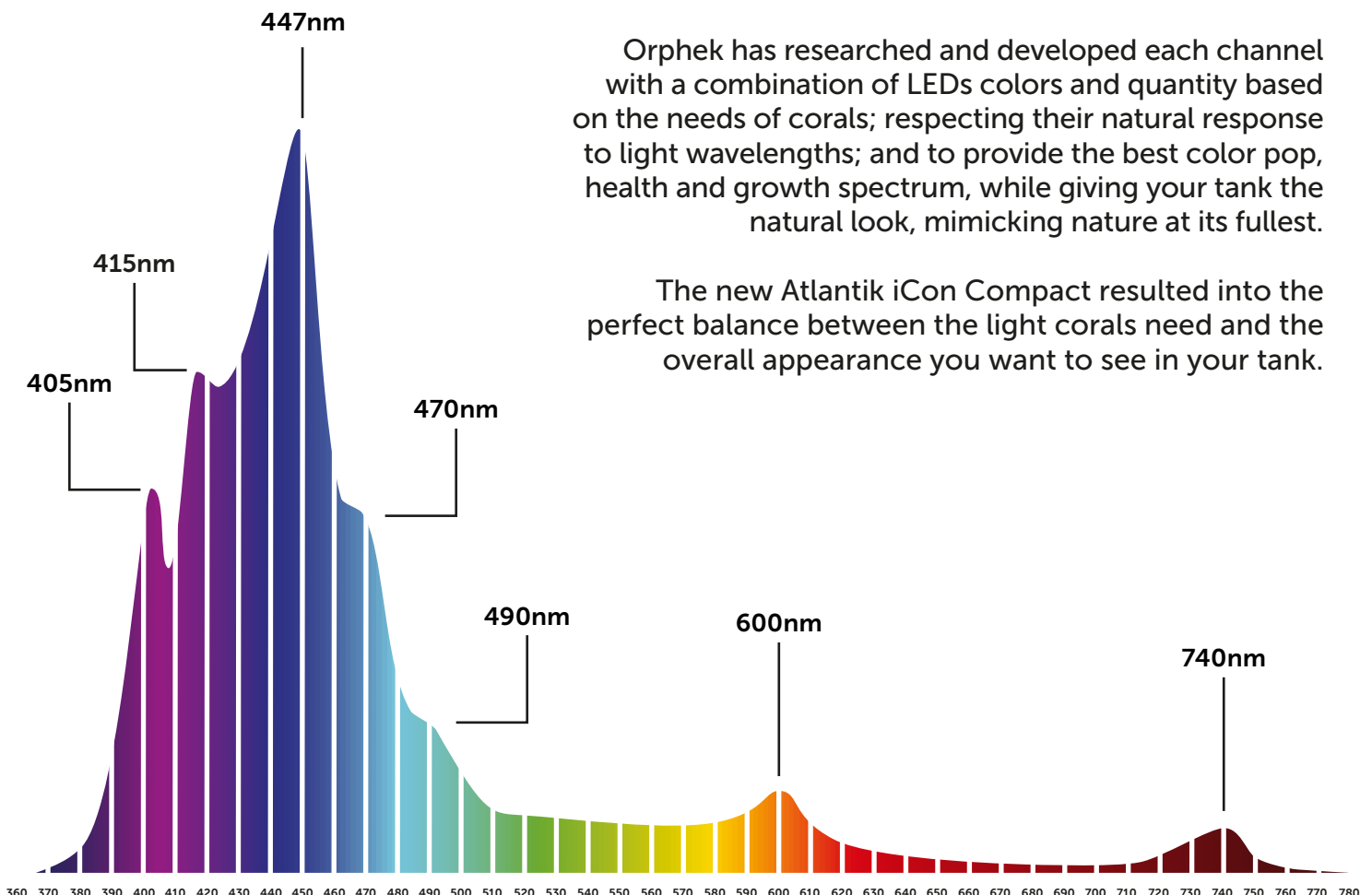
- ✓ 6 fully programmable channels
- ✓ Moon cycle, clouds, acclimation, jelly fish modes
- ✓ Wireless remote and local programming
- ✓ Ability to program multiple units
- ✓ Optimal pre-installed program included (Helius)
- ✓ Wi-Fi / Bluetooth / Hotspot Sharing / Cloud



The Spectrum

Orphek has researched and developed each channel with a combination of LEDs colors and quantity based on the needs of corals; respecting their natural response to light wavelengths; and to provide the best color pop, health and growth spectrum, while giving your tank the natural look, mimicking nature at its fullest.

The new Atlantik iCon Compact resulted into the perfect balance between the light corals need and the overall appearance you want to see in your tank.



What's in the box



1

2

3

4

5

2 x steel cables 250mm / 9.84"
1x steel cable 1.8m / 70.86"

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

1. Atlantik iCon

2. Power Cord with Waterproof Connector

3. Stainless Steel Hanging Kit

4. Antenna

5. Power Supply

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
123-130W	AC 100-240V	DC 36V	97%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (L x W x H)
Mean Well: HLG-150H-36A	3.97kg / 8.7lbs	34.5cm x 23.8cm x 53.6cm 13.58" x 9.37" x 2.11"



MORE INFO

OR3 LED BAR

The Most Powerful LED Bar in the Market

Our exclusive OR3 LED Bars come in 4 different lengths (60/90/120/150) with multiple mounting options, 6 spectrums available and several lens options (15°/30°/60°/90°).



Our OR3 LED Bars come with Orphek patented technologies: Lens adjustment and LEDs substitution without losing waterproof protection and Orphek customized power supply for best electricity transfer and stability.

Applications

- ✓ SPS / LPS / Soft coral growth, color and illumination
- ✓ Reef salted water / Planted freshwater aquariums
- ✓ To enhance beauty of natural / Synthetic compositions
- ✓ Public venues / Private aquariums
- ✓ Coral shops / Coral Farms
- ✓ Educational / Research facilities
- ✓ Nurseries / Refugium
- ✓ Indoors - Opened / Closed areas

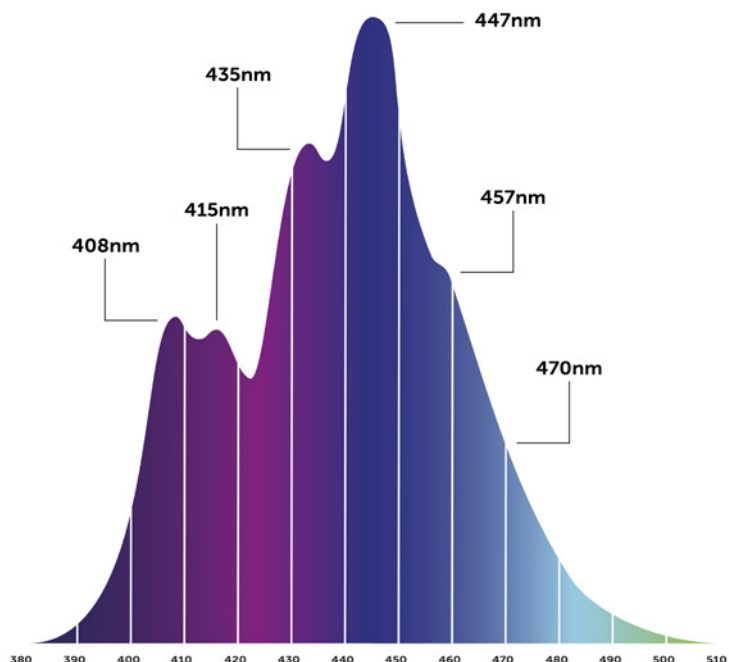
Best for

- Boost of coral pop, health & growth
- Boost aquatic plants growth & health
- Boost fluorescent color/Photosynthesis
- Cultivate macroalgae
- Supplemental light spectrum
- Achieve desired spectrum
- Replace T5 / T8 lighting

OR3 Blue Plus

Incredible widest Blue / Violet fluorescence spectrum (400 - 500nm).

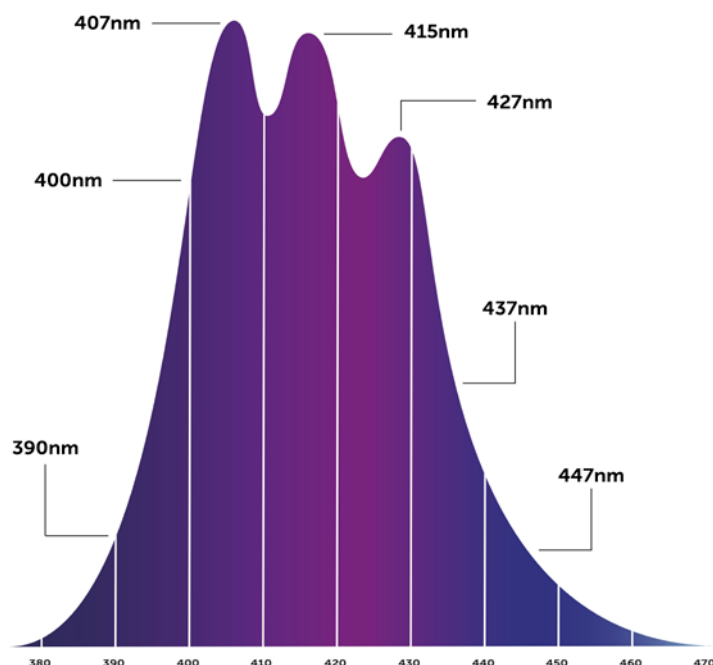
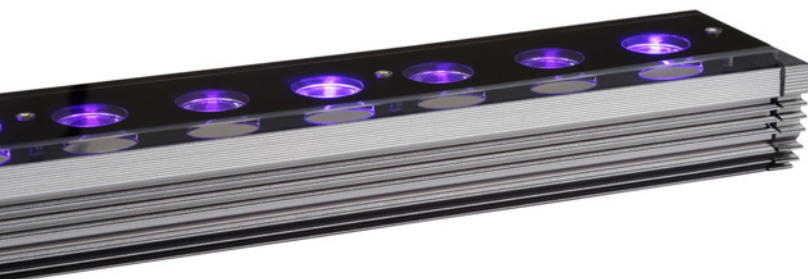
For SPS/LPS/Soft coral growth, wide fluorescence coral pop & maximum absorption of chlorophyll c2.



OR3 UV/Violet

Unparalleled widest actinic fluorescence pop spectrum (400 - 435nm).

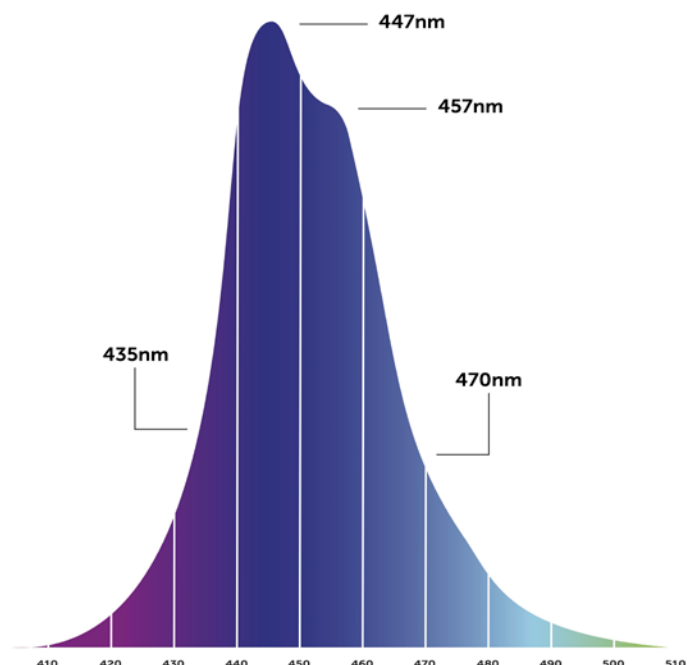
For SPS/LPS/Soft coral growth, Actinic fluorescence coral pop, maximum absorption of by chlorophylls a and c2 & excitation of fluorescent proteins.



OR3 Blue Sky

Extreme coral fluorescence / color pop spectrum (450 - 475nm).

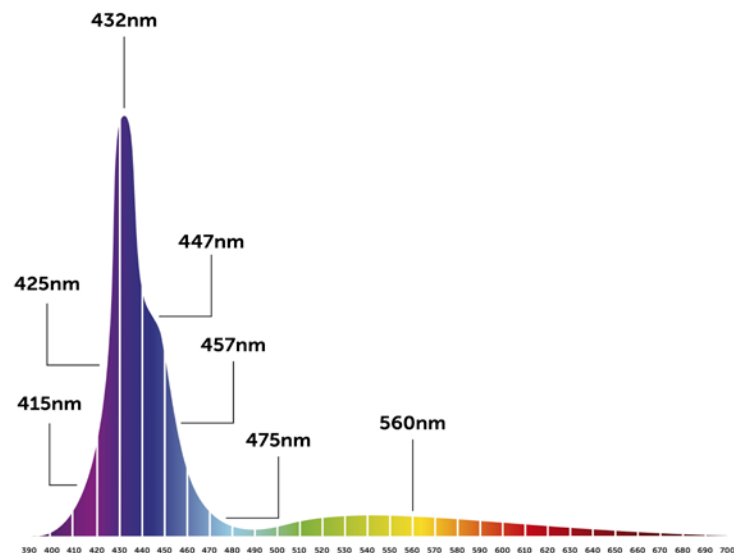
For SPS/LPS/Soft coral maximum photosynthesis of chlorophylls a and c2 & Beta-carotene protective antioxidant agent (at 470nm).



OR3 Violet Reef Day

Ultra natural crisp actinic natural look
(Combination of Full Spectrum White LED
18,000K and Violet LEDs 430nm).

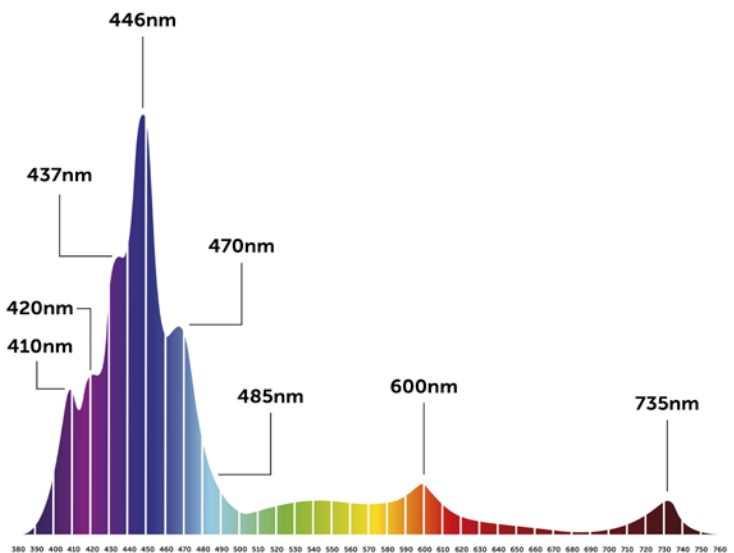
For SPS/LPS/Soft coral boost of growth & photosynthesis.



OR3 Reef Day Plus

Widest white full natural day spectrum
(Combination of Widest 18000K Full
Spectrum 390-740nm).

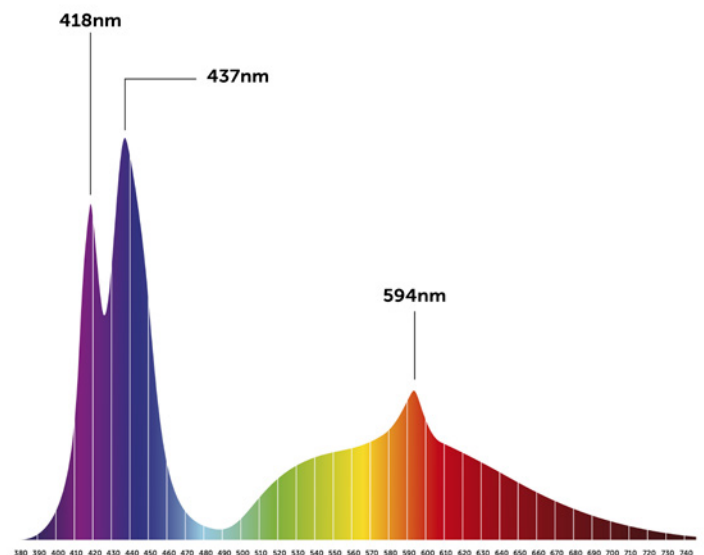
For SPS/LPS/Soft coral growth, color and illumination.



OR3 Freshwater Planted

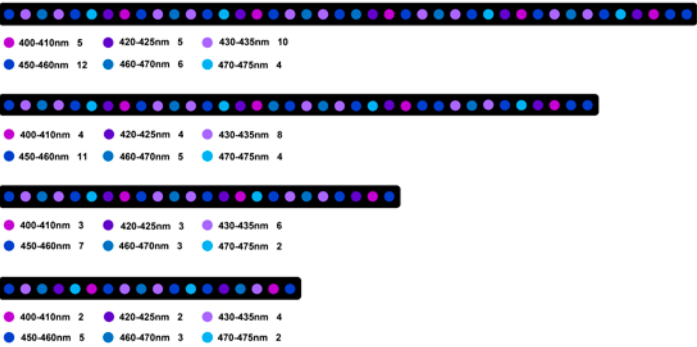
Widest White full natural day spectrum
(Combination of 7,000K Full spectrum
400-700nm).

For aquatic plants boost of growth, boost of vibrant
coloration & perfect environment lighting conditions.



Ratio Map

OR3 Blue Plus



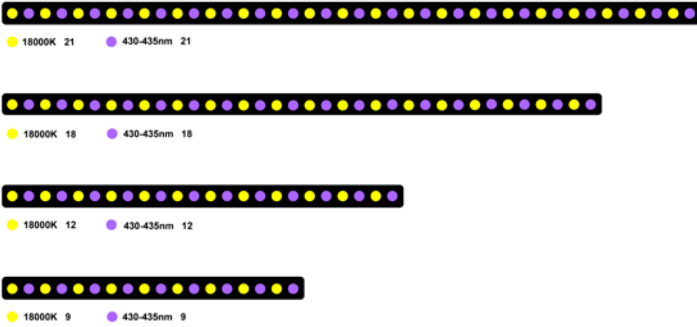
OR3 UV/Violet



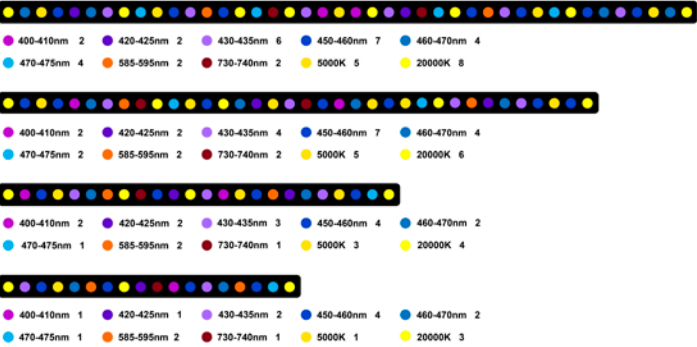
OR3 Blue Sky



OR3 Violet Reef Day



OR3 Reef Day Plus



OR3 Freshwater Planted

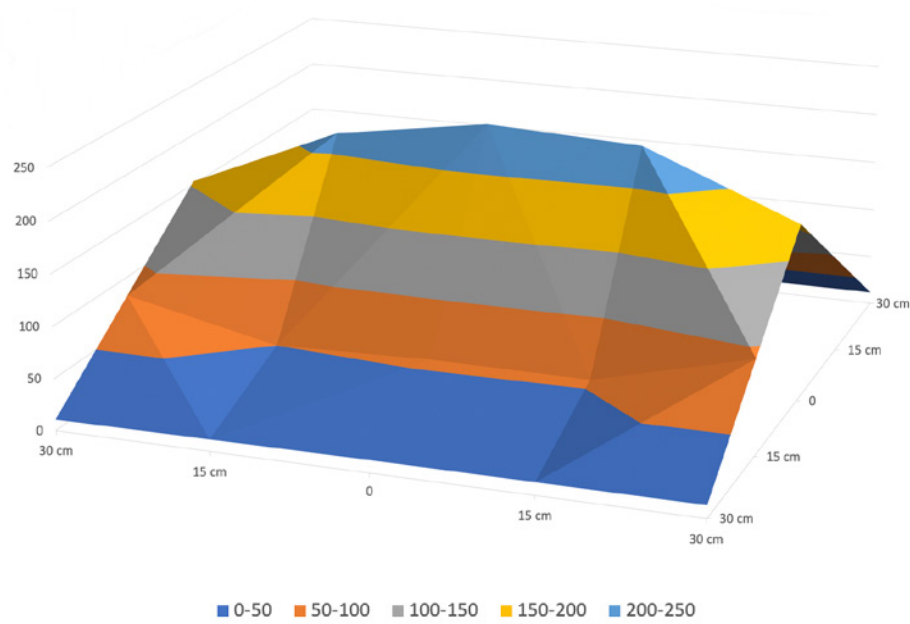


The PAR

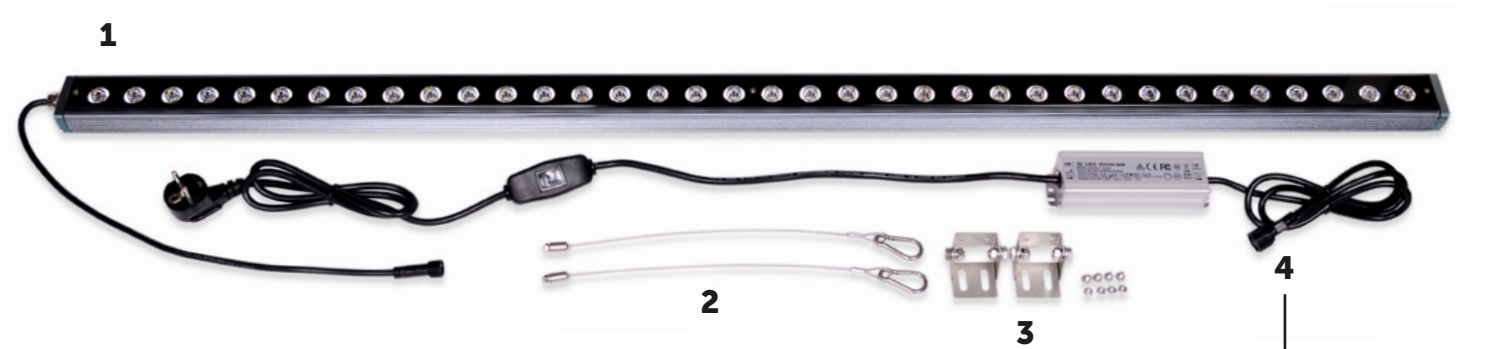
OR3 is truly one of a kind and stands out from the rest with a Highest PAR value. It's certainly in a league of its own.

The peak value is incredibly high, 240 PAR at 37cm / 14.56".

*The instrument used in this measurement is calibrated to work underwater.



What's in the box



- 1. OR3 LED Bar
- 2. Hanging Cables
- 3. Hanging Brackets
- 4. Power Supply and extension cord with waterproof connector

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

	POWER CONSUMPTION	OUTPUT VOLTAGE	OUTPUT CURRENT	NET WEIGHT	DIMENSIONS (L x W x H)
OR3 60	30W	DC 30-65V	450mA	1.20kg / 2.64lbs	63.5cm x 5.0cm x 3.6cm 25" x 1.97" x 1.4"
OR3 90	40W	DC 40-82V	450mA	1.65kg / 3.68lbs	93.5cm x 5.0cm x 3.6cm 36.8" x 1.97" x 1.4"
OR3 120	60W	DC 30-65V	900mA	2.30kg / 5.07lbs	123.5cm x 5.0cm x 3.6cm 48.7" x 1.97" x 1.4"
OR3 150	75W	DC 35-71V	1050mA	3.27kg / 7.20lbs	153.5cm x 5.0cm x 3.6cm 60.4" x 1.97" x 1.4"

*Power Supply: input voltage AC 100-240V, 50-60Hz, Power Factor >90%)



CE IP67

MORE INFO

Amazonas 80

Powerful, Efficient and Versatile

A LED light fixture developed specifically for public aquariums and venues that will endure even in the most challenging & high maintenance facilities.



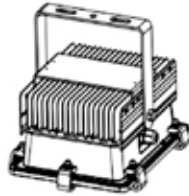
Applications

- ✓ Public aquariums & venues
- ✓ Indoors / Outdoors
- ✓ Salted water / Planted freshwater
- ✓ Close / Far distance from water surface
- ✓ Ceiling, walls and other fixing locations
- ✓ SPS / LPS corals
- ✓ Natural / Synthetic compositions
- ✓ Natural illumination, color pop, health and growth
- ✓ Provide a safe natural ambiance for expensive rare, exotic species & high maintenance

Features

- ✓ 80W chip LED
- ✓ Weather fastness surface treatment for anti rust / Anti corrosion
- ✓ Waterproof connectors
- ✓ Plug In / Plug Out friendly technology
- ✓ Adjustable rotational metal bracket (180°)
- ✓ 4 lens options (15°/30°/60°/90°)
- ✓ Optional DALI (Digital Addressable Lighting Interface) customization
- ✓ Optional Orphek iCon control 1000% dimming system customization

Amazonas 80 Lux Distance Curve 15° / 30° / 60° Reflectors



Center Lux			Light Cover		
15°	/	30°	/	60°	
24905lx	17941lx	8298lx	1m	0.4m	0.5m
6226lx	4485lx	2074lx	2m	0.8m	1.1m
2767lx	1993lx	922lx	3m	1.2m	1.7m
1556lx	1121lx	518lx	4m	1.7m	2.3m
996lx	717lx	332lx	5m	2.1m	2.9m
691lx	498lx	230lx	6m	2.5m	3.5m
508lx	366lx	169lx	7m	3m	4.1m
389lx	280lx	129lx	8m	3.4m	4.7m
307lx	221lx	102lx	9m	3.8m	5.3m
249lx	179lx	83lx	10m	4.2m	5.9m
205lx	148lx	68lx	11m	4.7m	6.5m
173lx	124lx	57lx	12m	5.1m	7.1m
147lx	106lx	49lx	13m	5.5m	7.7m
127lx	91lx	42lx	14m	6m	8.3m
110lx	79lx	36lx	15m	6.4m	8.9m
97lx	70lx	32lx	16m	6.8m	9.5m
86lx	62lx	28lx	17m	7.2m	10.1m
76lx	55lx	25lx	18m	7.7m	10.7m
69lx	49lx	23lx	19m	8.1m	11.3m
62lx	44lx	20lx	20m	8.5m	11.9m

Center

Diameter

What's in the box



1. Amazonas 80

2. Built in mounting installation with plug and with adjustable rotational metal bracket

3. Power Cord with Waterproof Connector

4. Power Supply

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
80W	AC 100-240V	DC 36V	97%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (L x W x H)
Mean Well: ELG-100-36A	2.5kg / 5.5lbs	25cm x 20cm x 11.7cm 9.8" x 12.6" x 4.6"



CE IP67

MORE INFO

Amazonas 320

Recreating Nature at its Fullest

A LED fixture developed specifically for public aquariums, venues and coral farms, offering perfect spread and mesmerizing sun shimmering effect, with Orphek's revolutionary matrix mix color 80W LED, fitting several layouts.



Applications

- ✓ Public aquariums & venues
- ✓ Indoors / Outdoors
- ✓ Salted water / Planted freshwater
- ✓ Close / Far distance from water surface
- ✓ Ceiling, walls and other fixing locations
- ✓ Natural / Synthetic compositions
- ✓ Perfect for wide, cube SPS / LPS aquariums / Deep cylinder tanks
- ✓ Natural illumination, color pop, health and growth
- ✓ Performance in extreme humidity / Salinity / High maintenance

Features

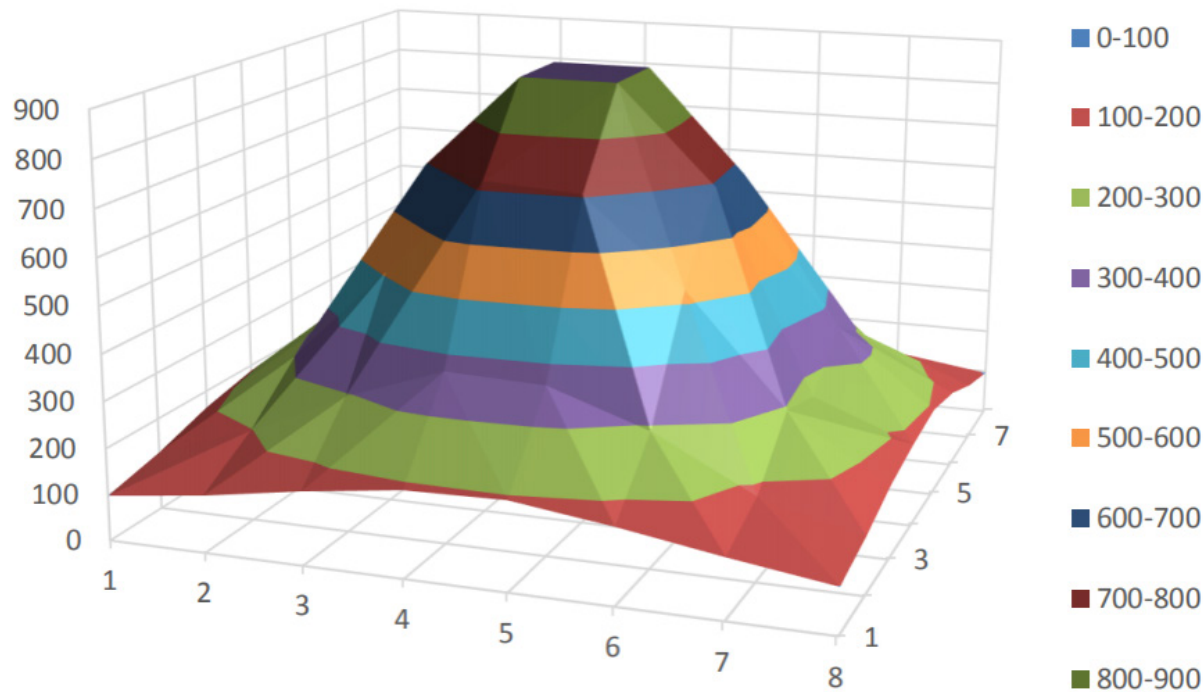
- ✓ 320W (4x80W) and Wide Spectrum from true UV (380 - 700nm)
- ✓ Waterproof connectors
- ✓ Plug In / Plug Out friendly technology
- ✓ 4 lens options (15°/30°/60°/90°)
- ✓ Optional DALI (Digital Addressable Lighting Interface) customization
- ✓ Weather fastness surface treatment for anti rust / Anti corrosion

The PAR

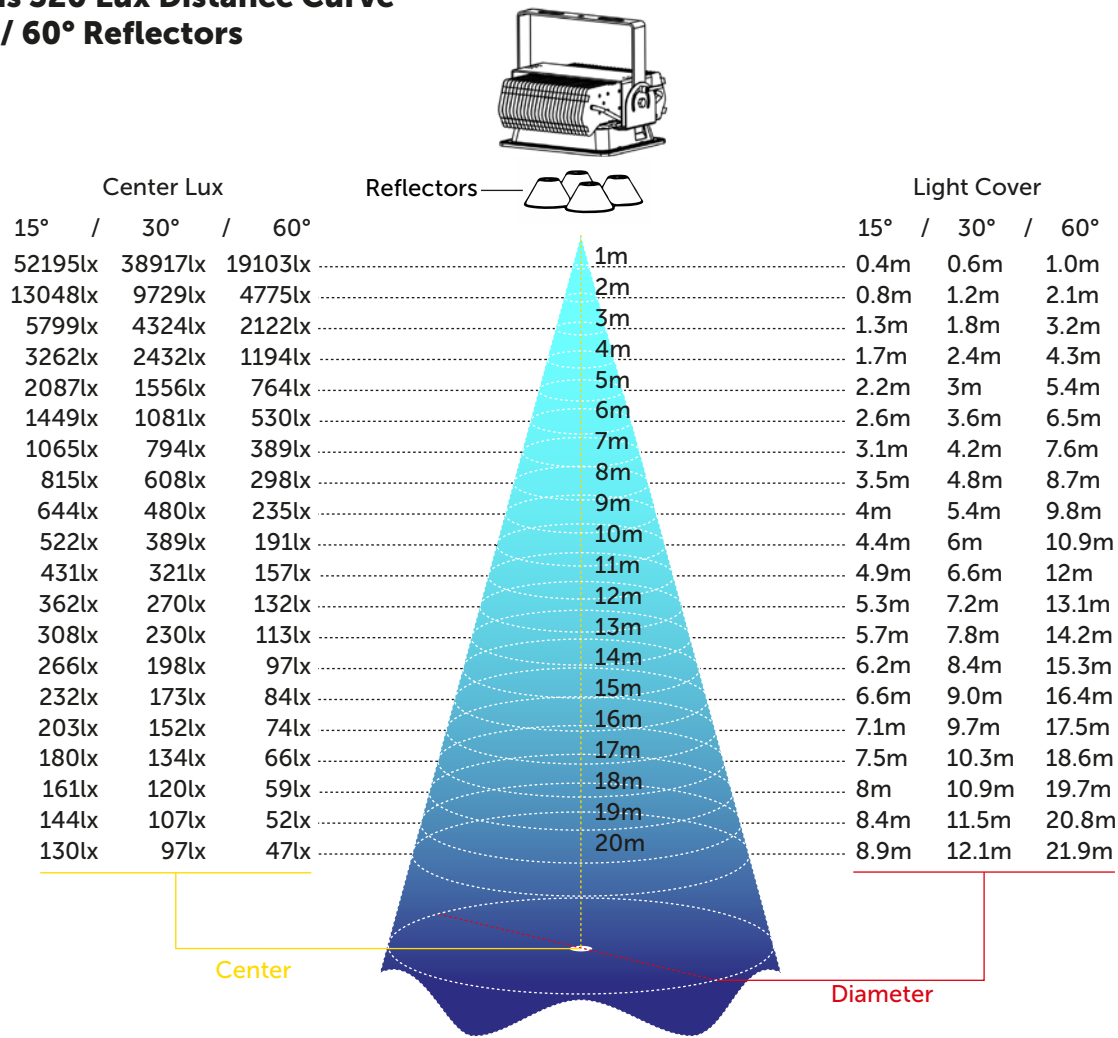
Amazonas 320 is truly one of a kind and stands out from the rest with a Highest PAR value. It's certainly in a league of its own.

The peak value is incredibly high, 900 PAR at 110cm / 43"

*The instrument used in this measurement is calibrated to work underwater



Amazonas 320 Lux Distance Curve 15° / 30° / 60° Reflectors



What's in the box



1. Amazonas 320

2. Power Cord with Waterproof Connector

3. Power Supply

4. Built in mounting installation with plug and with adjustable rotational metal bracket

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
320W	AC 100-240V	DC 36V	>95%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (L x W x H)
Mean Well: HLG-320-36A	4.8kg / 10.6lbs	27cm x 32cm x 27.5cm 10.6" x 12.6" x 10.8"



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MORE INFO

Amazonas 500

The Star of Orphek Amazonas Series

Designed as a direct replacement for metal halide systems (600W - 1000W), the Orphek Amazonas 500 is the perfect LED solution for very deep coral reef aquariums or large freshwater displays and large areas.



Applications

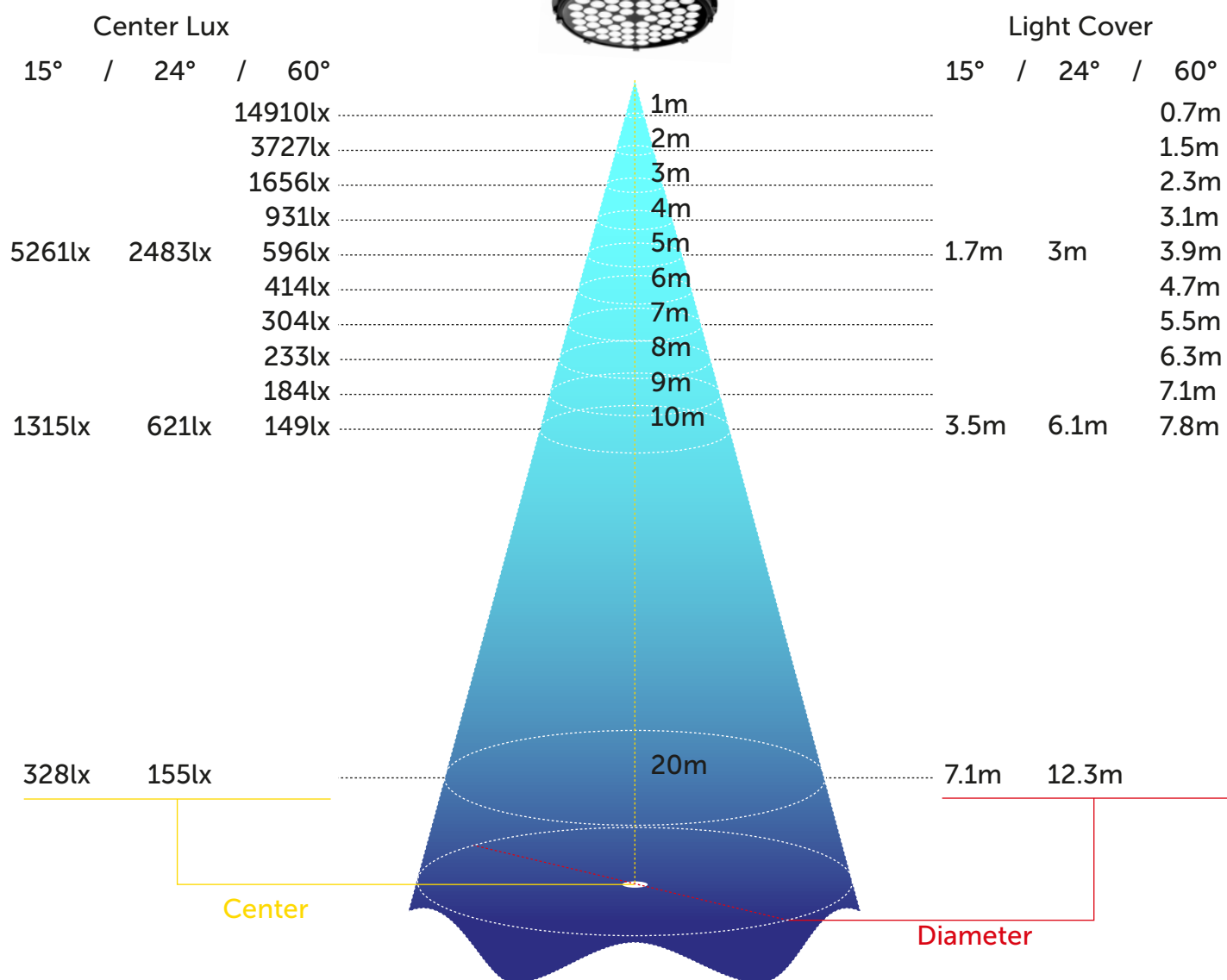
- ✓ Public aquariums & venues
- ✓ Indoors / Outdoors
- ✓ Salted water / Planted freshwater
- ✓ Close / Far distance from water surface
- ✓ Ceiling, walls and other fixing locations
- ✓ Natural / Synthetic compositions
- ✓ Perfect for deep & very deep over 15m depth
- ✓ Natural illumination, color pop, health and growth
- ✓ Performance in extreme humidity / Salinity / High maintenance

Features

- ✓ 360° three dimensional heat dissipation optimal thermal solution for heat management.
- ✓ Waterproof connectors
- ✓ Plug In / Plug Out friendly technology
- ✓ 4 lens options (15°/30°/60°/90°)
- ✓ Optional DALI (Digital Addressable Lighting Interface) customization
- ✓ Weather fastness surface treatment for anti rust / Anti corrosion

Amazonas 500 Lux Distance Curve

15° / 24° / 60° Reflectors



What's in the box



1. Amazonas 500

2. Power Cord with Waterproof Connector

3. Built in mounting installation with plug and with adjustable rotational metal bracket

4. 2x Power Supply

Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
500~510W	AC 100-240V	DC 36V	98%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (D x H)
Mean Well: HLG-240-36A	15kg / 33lbs	44.5cm x 27.5cm 17.5" x 10.8"



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MORE INFO

Amazonas 960 iCon

The Star of Orphek Amazonas Series

Amazonas 960 iCon combines cutting – edge technology with the best Orphek spectrum, to render the most natural, easy-to-adapt and healthier aquarium environment, while enhancing its beauty to the highest mesmerizing level!



Applications

- ✓ Public aquariums & venues
- ✓ Indoors / Outdoors
- ✓ Salted water / Planted freshwater
- ✓ Close / Far distance from water surface
- ✓ Ceiling, walls and other fixing locations
- ✓ Natural / Synthetic compositions
- ✓ Perfect for wide, cube SPS / LPS aquariums / Deep cylinder tanks
- ✓ Natural illumination, color pop, health and growth
- ✓ Performance in extreme humidity / salinity / High maintenance

Features

- ✓ 1000% dimming control system
- ✓ Power consumption of 320w
- ✓ Spectrum (380 - 700nm)
- ✓ Waterproof connectors
- ✓ Plug In / Plug Out friendly technology
- ✓ Intelligent connectivity
- ✓ 4 lens options (15°/30°/60°/90°)
- ✓ Optional DALI (Digital Addressable Lighting Interface) customization
- ✓ Weather fastness surface treatment for anti rust / Anti corrosion
- ✓ Passive cooling (no fans)

New Technology New App

Developed with a friendly technology both easy and fun to use, the new Orphek App is compatible with both IOS and Android, Cloud support, voice control and many other cool features!

Features

- ✓ 4 fully programmable channels
- ✓ Moon cycle, clouds, acclimation, jelly fish modes
- ✓ Wireless remote and local programming
- ✓ Ability to program multiple units
- ✓ Optimal pre-installed program included (Helius)
- ✓ Wi-Fi / Bluetooth / Hotspot Sharing / Cloud

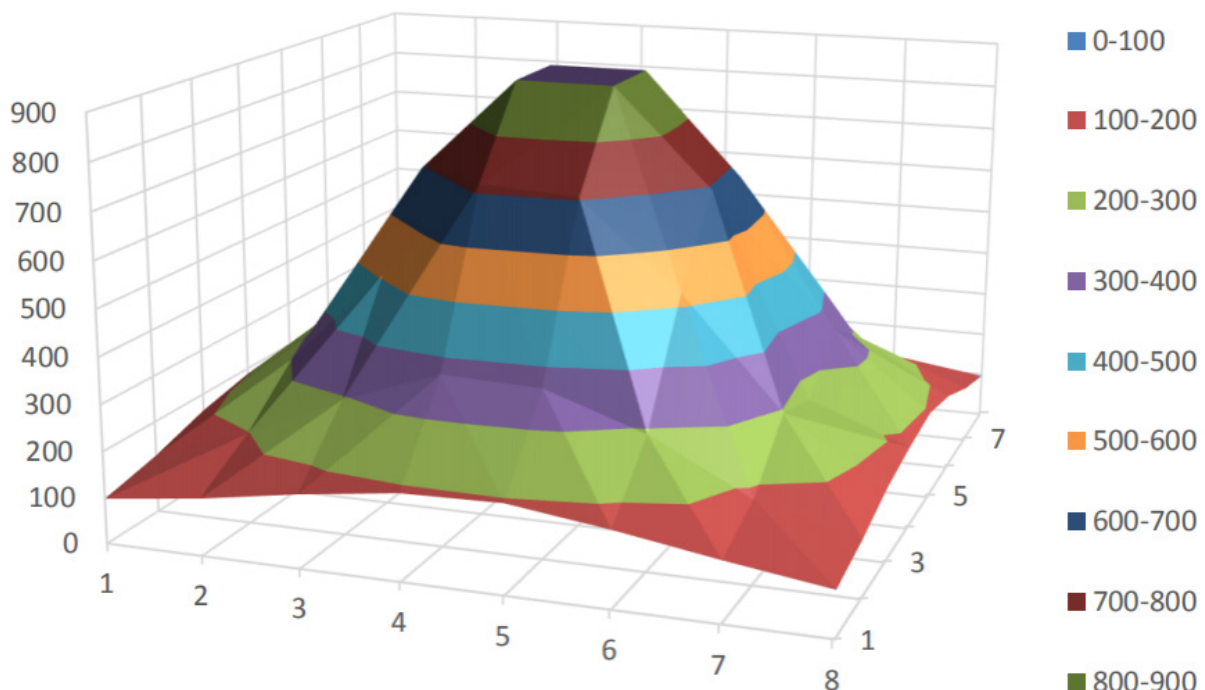


The PAR

Amazonas 960 iCon is truly one of a kind and stands out from the rest with a Highest PAR value. It's certainly in a league of its own.

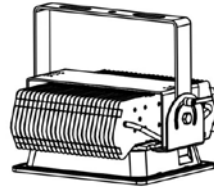
The peak value is incredibly high, 900 PAR at 110cm / 43"


*The instrument used in this measurement is calibrated to work underwater



Amazonas 960 iCon Lux Distance

Curve 15° / 30° / 60° Reflectors



Reflectors — 

Center Lux				Light Cover		
15°	30°	60°		15°	30°	60°
52195lx	38917lx	19103lx	1m	0.4m	0.6m	1.0m
13048lx	9729lx	4775lx	2m	0.8m	1.2m	2.1m
5799lx	4324lx	2122lx	3m	1.3m	1.8m	3.2m
3262lx	2432lx	1194lx	4m	1.7m	2.4m	4.3m
2087lx	1556lx	764lx	5m	2.2m	3m	5.4m
1449lx	1081lx	530lx	6m	2.6m	3.6m	6.5m
1065lx	794lx	389lx	7m	3.1m	4.2m	7.6m
815lx	608lx	298lx	8m	3.5m	4.8m	8.7m
644lx	480lx	235lx	9m	4m	5.4m	9.8m
522lx	389lx	191lx	10m	4.4m	6m	10.9m
431lx	321lx	157lx	11m	4.9m	6.6m	12m
362lx	270lx	132lx	12m	5.3m	7.2m	13.1m
308lx	230lx	113lx	13m	5.7m	7.8m	14.2m
266lx	198lx	97lx	14m	6.2m	8.4m	15.3m
232lx	173lx	84lx	15m	6.6m	9.0m	16.4m
203lx	152lx	74lx	16m	7.1m	9.7m	17.5m
180lx	134lx	66lx	17m	7.5m	10.3m	18.6m
161lx	120lx	59lx	18m	8m	10.9m	19.7m
144lx	107lx	52lx	19m	8.4m	11.5m	20.8m
130lx	97lx	47lx	20m	8.9m	12.1m	21.9m

Center

Diameter

What's in the box



Light to Power Supply
Total: 2.85m / 112"
Power Cord: 1.5m / 59"

1. Amazonas 960 iCon

2. Power Cord with Waterproof Connector

3. Power Supply

4. Built in mounting installation with plug and with adjustable rotational metal bracket

5. Antenna

POWER CONSUMPTION	INPUT VOLTAGE	OUTPUT VOLTAGE	POWER FACTOR	FREQUENCY
320W	AC 100-240V	DC 36V	>95%	47-63Hz

POWER SUPPLY	NET WEIGHT	DIMENSIONS (L x W x H)
Mean Well: HLG-320-36A	4.8kg / 10.3lbs	27cm x 32cm x 27.5cm 10.6" x 12.6" x 10.8"



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MORE INFO

Customizations

We help you recreate Nature and enhance the beauty of your areas displayed by offering a versatile light solution with more than one application of integration of light source.

Amazonas 960 iCon versatility offers possibilities for customization of features to better fit to the requirements of your project.

- LEDs
- Reflector cups
- Power cord extensions

It is designed to enhance beauty of both natural and synthetic compositions.

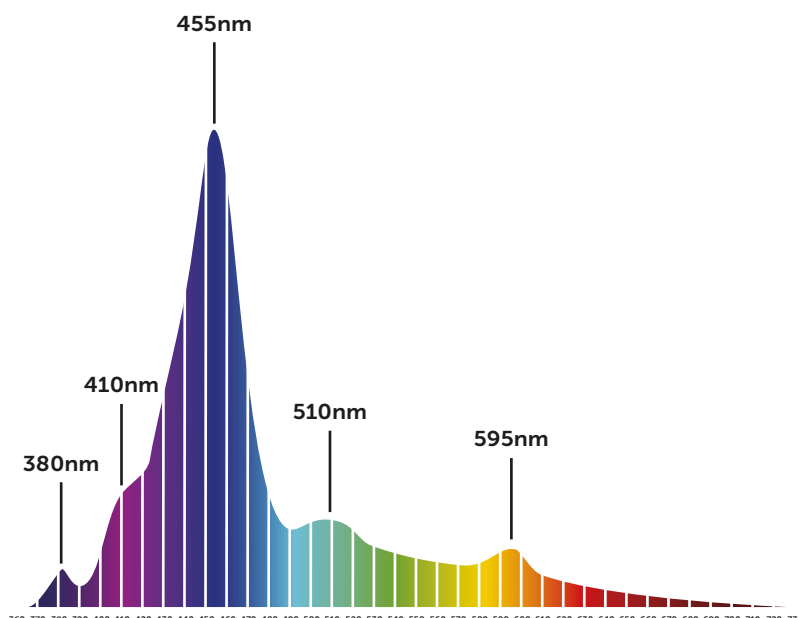
You tell us, we customize it for you!

80W XP White 18000K

Reef Day Light - Wide Full Spectrum - from true UV 380-700nm. For SPS/LPS/Soft coral growth, color and illumination.



380-385nm 4	470-475nm 6
410-415nm 5	500-505nm 6
420-425nm 5	525-530nm 4
430-435nm 4	590-595nm 4
440-445nm 2	18000K 20
460-465nm 20	

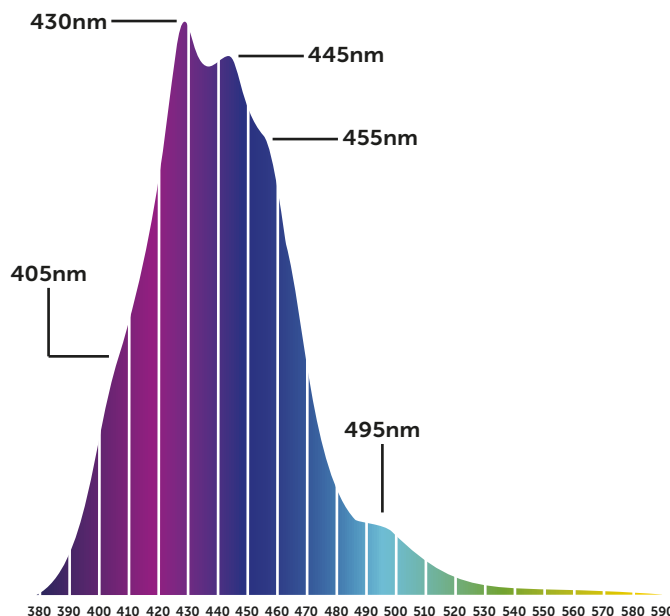


80W XP Blue Plus

Blue/Violet/UV - 400-500nm. For SPS/LPS/Soft coral growth and wide fluorescent coral "pop".

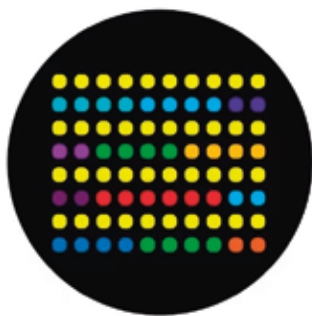


400-405nm 5	450-455nm 15
410-415nm 5	460-465nm 15
420-425nm 10	470-475nm 5
430-435nm 15	490-495nm 5
440-445nm 5	

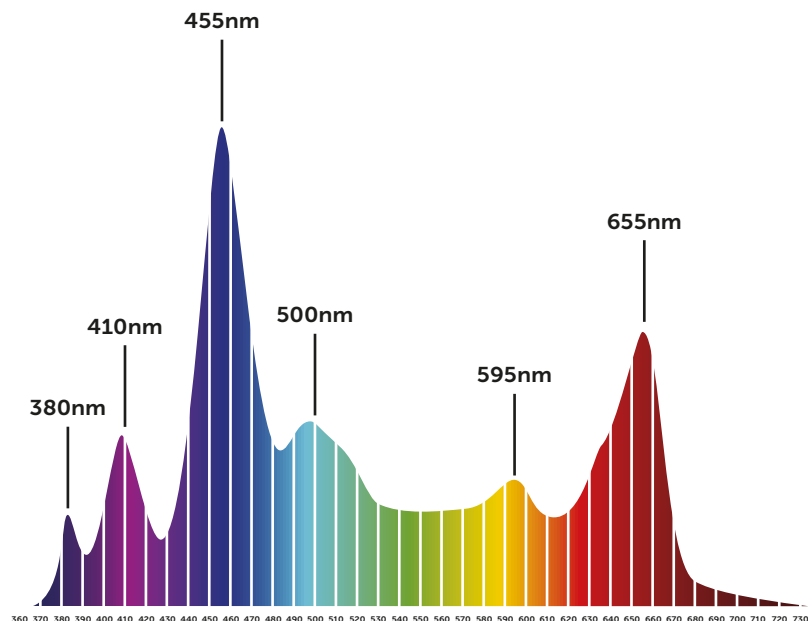


80W XP White 6000K

Freshwater Planted - Wide Full Spectrum
- from true UV 380-700nm. The most complete spectrum for fast plants growth, color.

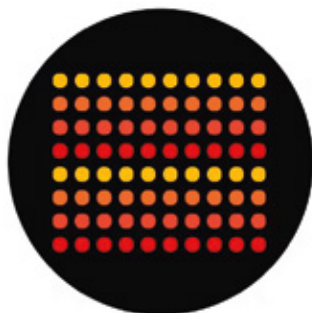


380-385nm 2	500-505nm 4
410-415nm 2	525-530nm 4
420-425nm 2	590-595nm 4
460-465nm 4	620-625nm 2
470-475nm 6	650-655nm 6
490-495nm 4	5000K 40

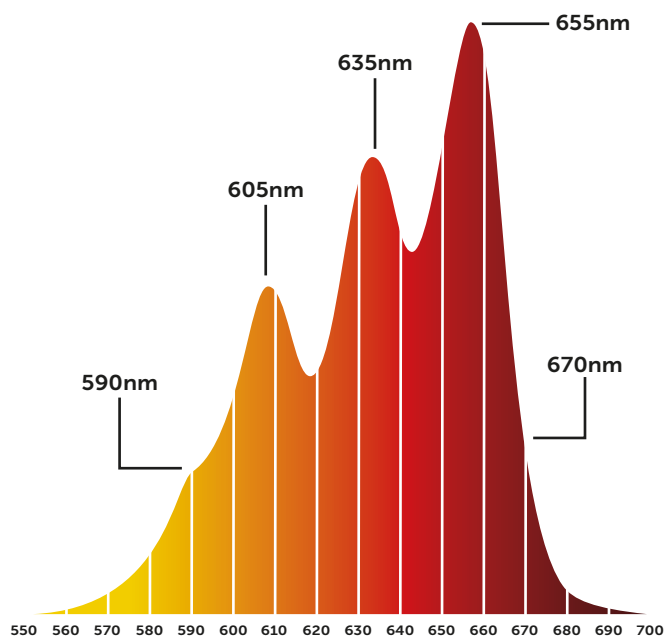


80W XP Red Plus

Wide Red Full Spectrum - from true UV
580-700nm. The most complete Red Spectrum for fast plants growth and color.

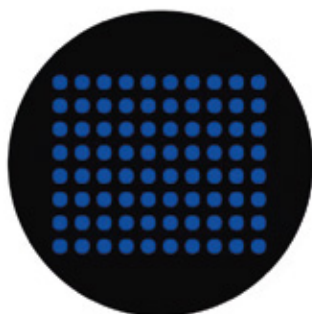


590-595nm 20
610-615nm 20
630-635nm 20
660-665nm 20

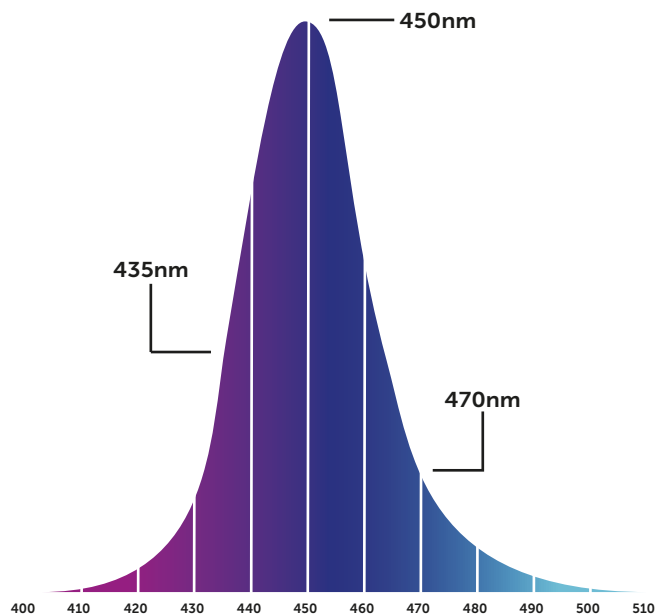


80W Blue

Blue 450-460nm. These wavelengths are important in zooxanthellae photosynthesis (chlorophylls a and c2 utilize blue).



450-455nm 80

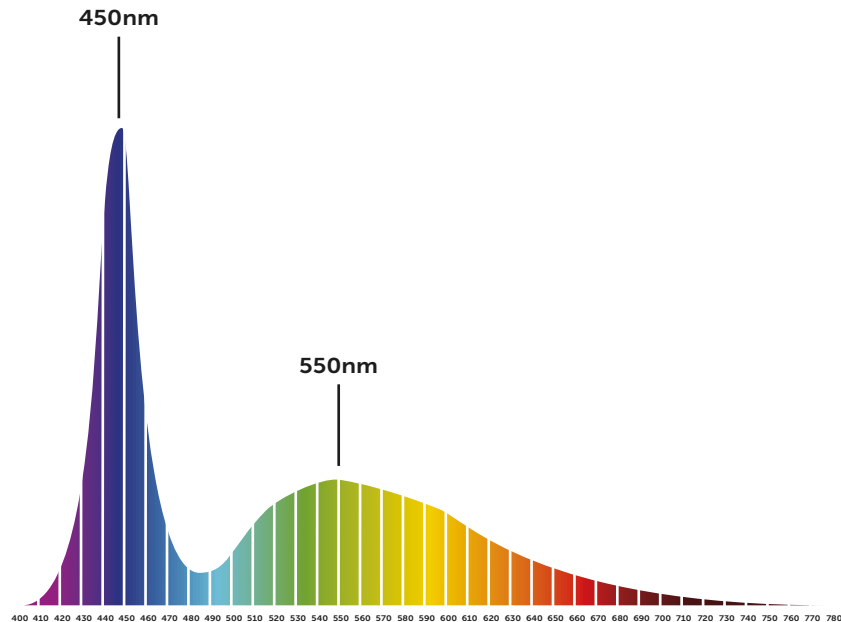


80W White 18000K

This channel will give you the natural color of half way between sunrise and sunset. This is a very clear, bright spectrum.



● 18000K 80

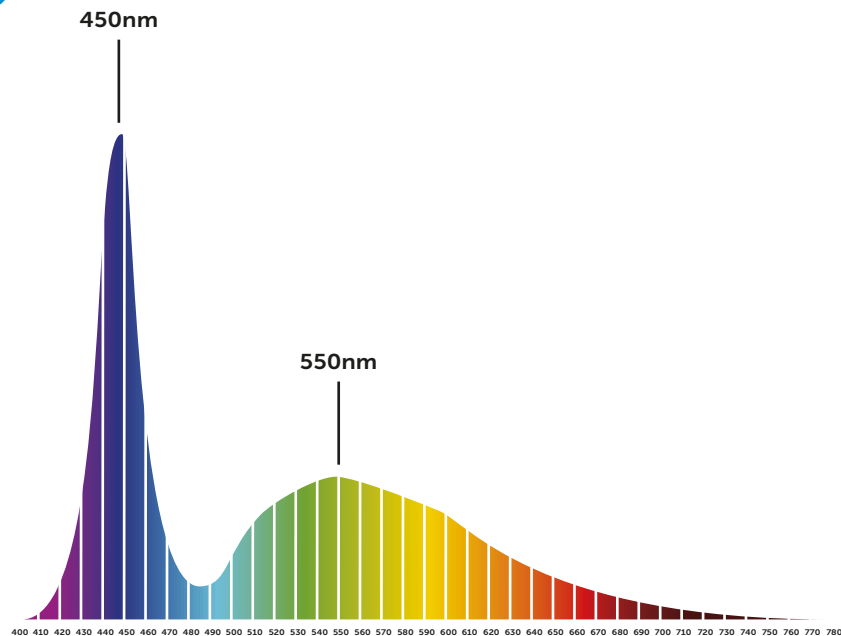


80W White 14000K

Single color LED for Saltedwater planted.



● 14000K 80

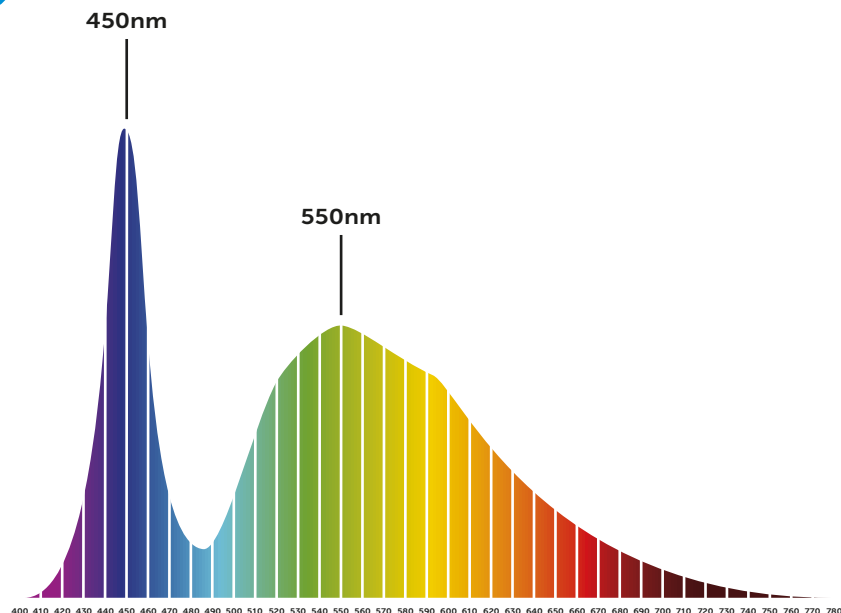


80W White 6000K

Single color LED for Freshwater planted.



● 6000K 80



Contact Us



www.orphek.com



contact@orphek.com

