



mazarra LED Lighting System

Innovative, efficient and versatile.

Maxspect. Innovative, efficient and versatile.

Maxspect Limited

www.maxspect.com

NOTE: Products, packaging, features and specifications are subject to change.

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Introducing Maxspect Mazarra LED Lighting System



Innovative and Contemporary

The Maxspect Mazarra LED Lighting System is an innovative solution to modern aquarium lighting. It has a splendid contemporary design, elegantly crafted from aluminum where every detail was carefully attended to.

Available in two colors, matte black and silvery white, the Mazarra is not only just a lighting fixture for your aquarium, but also a centerpiece of your living area.

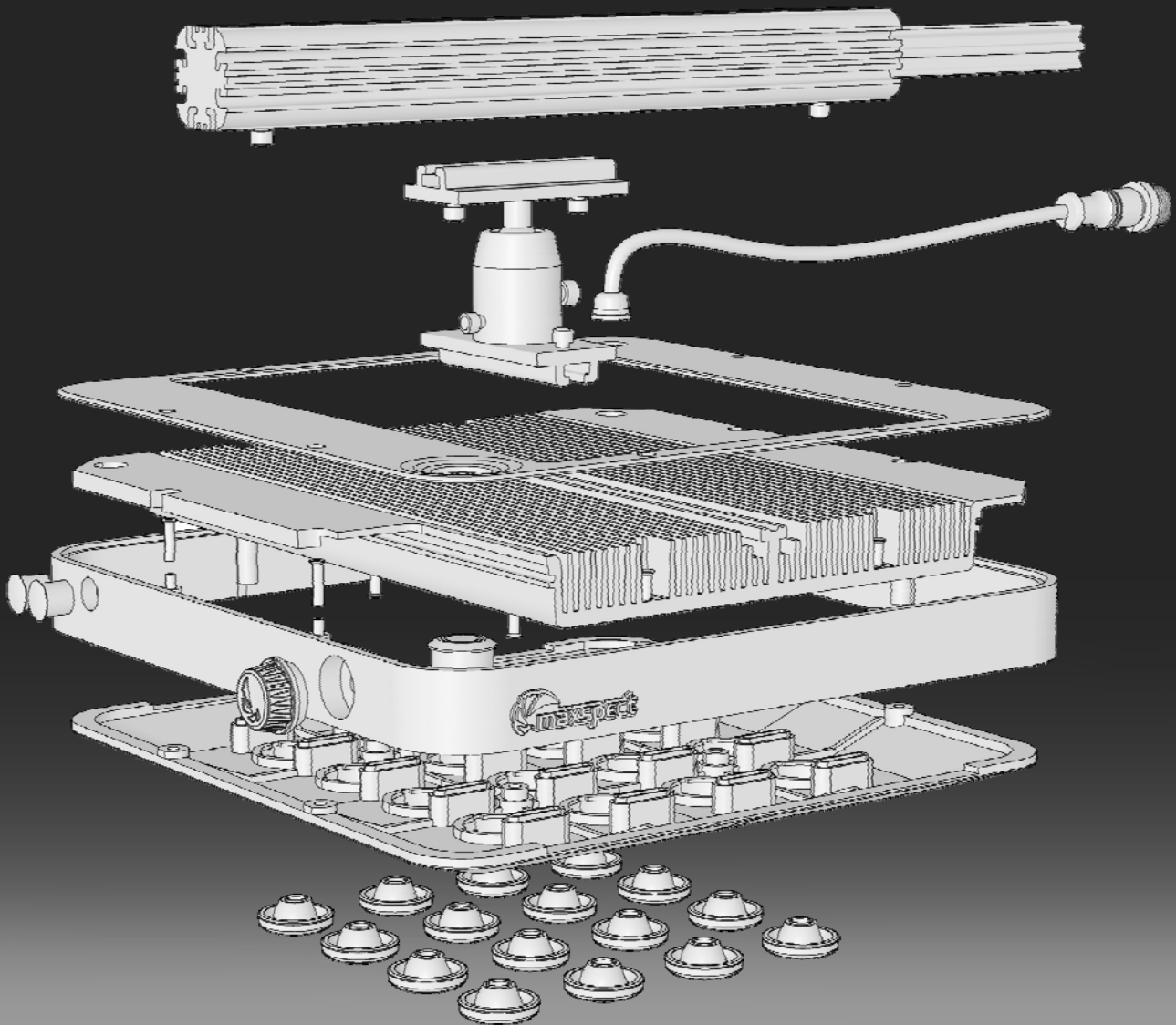
State-of-the-art Technology

The Mazarra utilizes state-of-the-art technologies, from wireless controller to latest LED chips, offering optimized performance and unparalleled energy efficiency.

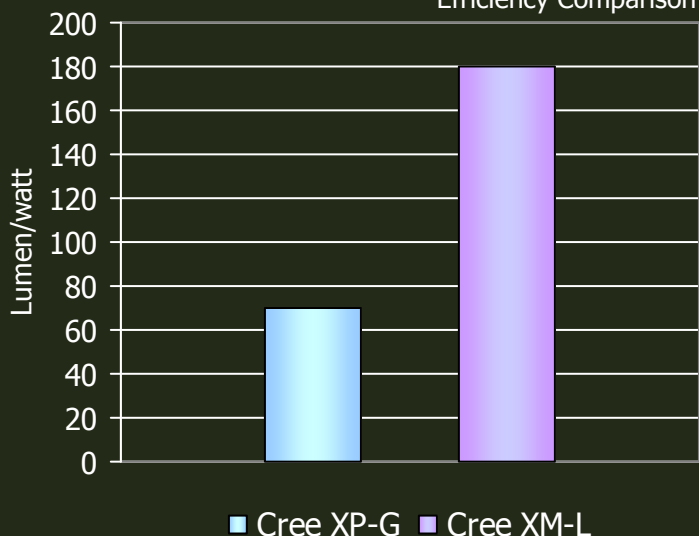


Fully Customizable Design

The Mazarra is designed with one goal in mind: Customizability – letting you to take full control over you lighting system.



Efficiency Comparison



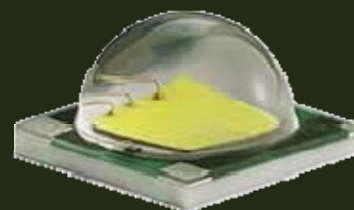
Unparalleled Efficiency

The Cree XLamp[®] XM-L chip is capable of producing up to 180 lumen/watt. This means at the same wattage it can produce up to 250% more luminous output than an older generation model.

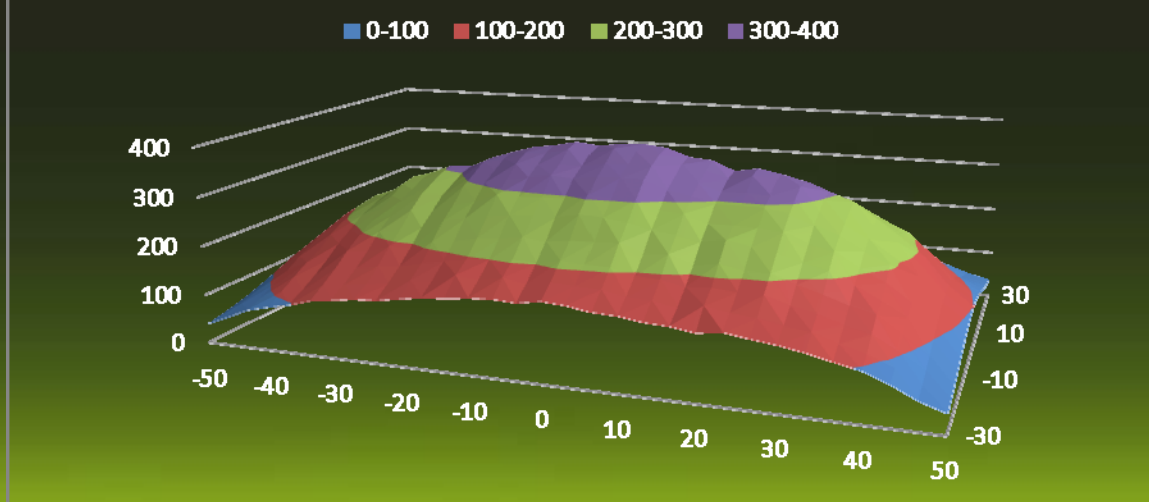
With this advanced technology, a standard Mazarra system consuming a mere 120w of power will be able to out-perform the 160w model from the previous generation.

Optimized Performance

Utilizing the latest Cree high performance high intensity XLamp[®] XM-L chip, the Mazarra will consume less power yet producing more PAR (Photosynthetic Active Radiation) for even your most demanding corals.



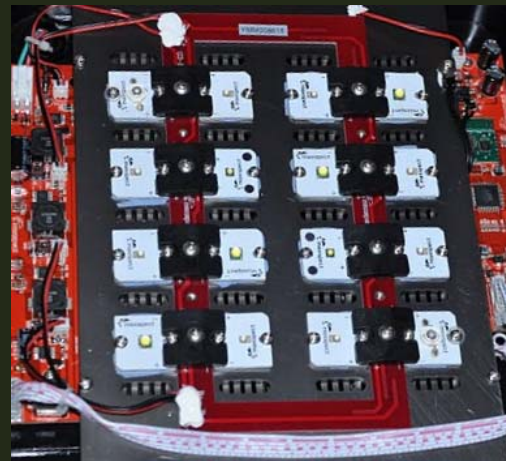
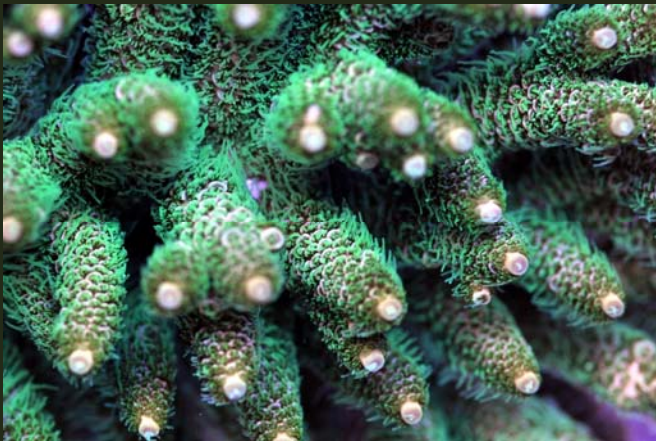
PAR Measurement - 50cm (~20") under water



PAR measurement of a standard 120w Mazarra LED Lighting System.

Mix-and-Match, Plug-and-Play

Mazarra is the only LED Lighting System available on the market that offers both plug-and-play LED bulb replacement design and LED bulbs covering the entire color spectrum, allowing maximum customization and flexibility.



Paint the Rainbow Yourself

Unlike traditional Metal Halide, T5HO fixtures or even typical LED systems that predetermined the spectrum, Mazarra allows you to pick the right spectrum for your aquarium, and bring out that color from your corals exactly like you have always dreamed of.

LED Types

Mazarra P Series

Channel	Make/Model	Quantity	Luminous Flux & Driven	Color Temperature
			Current	/ Wavelength
A	Cree XLamp® XM-L T6	4	540 lm @ 1500mA	Cool White 7000-8000K
B	Philips Luxeon Rebel LXML-PB01-0040	2	88 lm @ 1000mA	Blue 460-490nm
C	Philips Luxeon Rebel LXML-PR01-0500	2	1222mW @ 1000mA	Royal Blue 440-460nm
D	SiBDI S35-U U60	1	500mW @ 700mA	Super Actinic 400-410nm

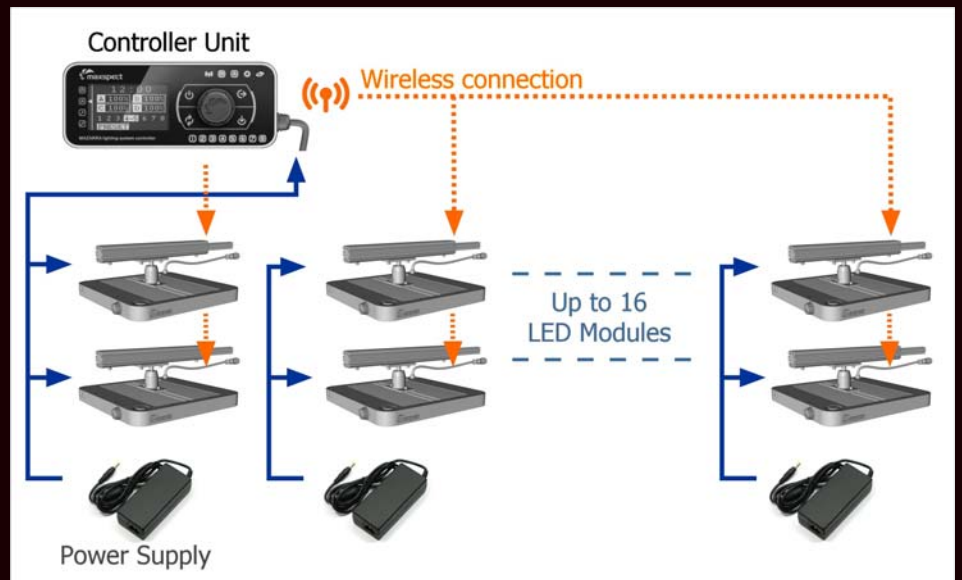
Mazarra S Series

A	Cree XLamp® XP-E R3	8	280 lm @ 1000mA	Cool White 7000-8000K
B	Cree XLamp® XP-E M2	4	69 lm @ 1000mA	Blue 465-485nm
	Cree XLamp® XP-E 16	4	1000mW @ 1000mA	Royal Blue 450-465nm

Note: Specifications are subject to change without notice.

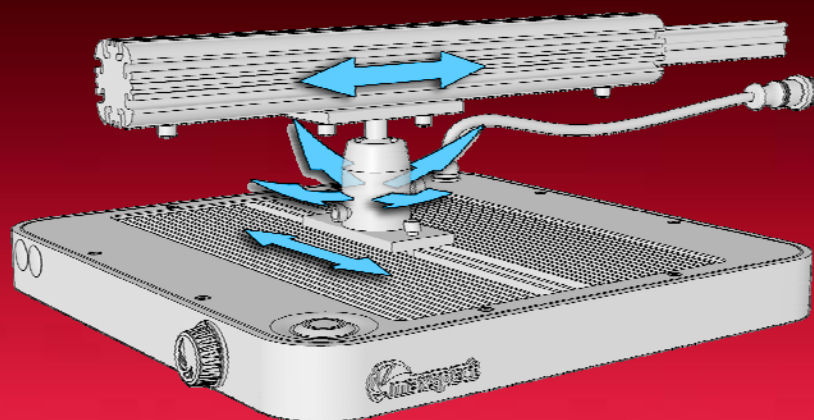
Modularized

The modular Mazarra system offers unprecedented scalability to all your lighting needs. With its wireless connectivity, adding a module is as easy as plug-and-play.



Versatile Mounting System

The uniquely designed Support Frame that will fit aquariums of all sizes and shapes, paired with the adjustable Platform Mount, by sliding and mounting the LED module at an angle, you can now take full control of your lighting system, directing light exactly where you wanted.





Controlled Intensity

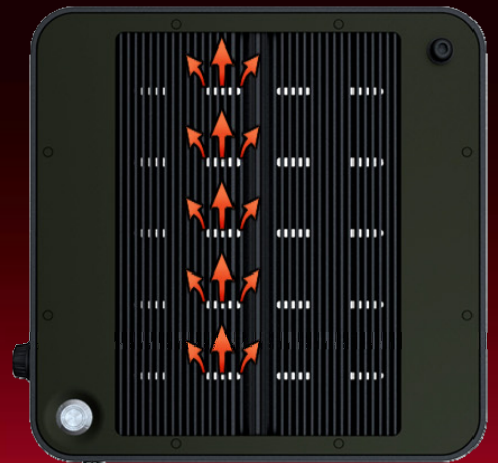
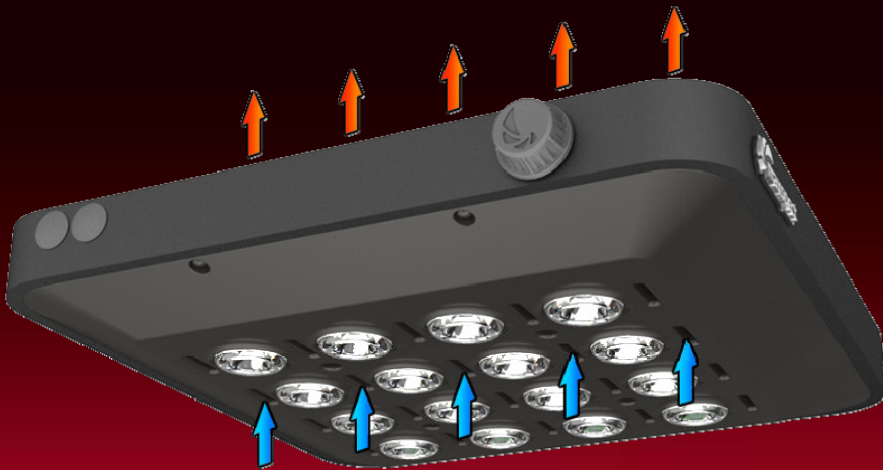
Control your light with our proprietary plug-and-play swappable optics with 3 options to choose from (100°, 70° and 40°).

Each individual LED bulb is fitted with swappable optics, letting you to choose between spread and intensity.

Passive Cooling

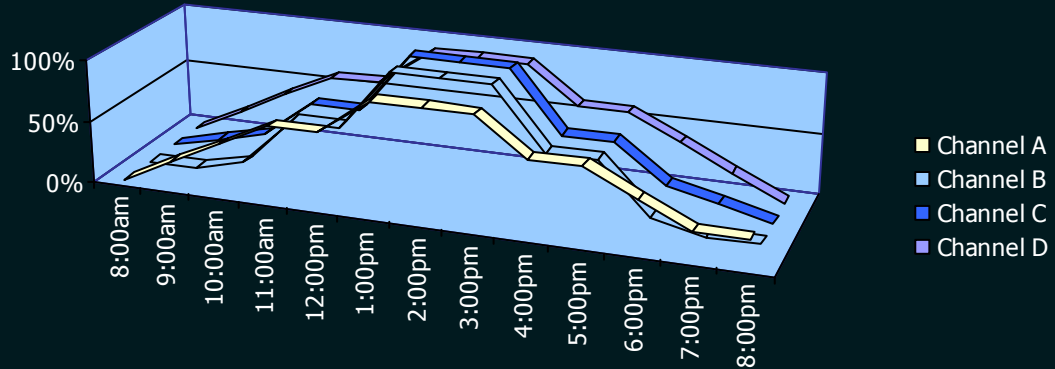
With the new Cree XLamp[®] XM-L chip, higher efficiency means less power is consumed and the Mazarra runs cooler than its predecessors.

Together with an ingenious aerodynamic design, the Mazarra is passively cooled when warm air passes through its aluminum chassis.



Fully Programmable Photoperiod

The Mazarra can be programmed to control the photoperiod and brightness of the system throughout the day.

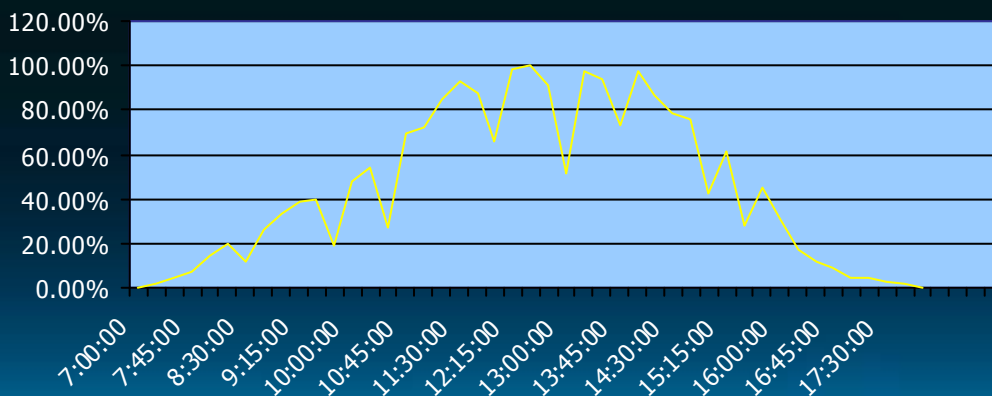


This diagram illustrates how the LED channels would cycle through different intensity throughout the day.

Weather Mode

The Weather mode will simulate the effect of clouds slowly moving across the sky, casting shadows over the ocean.

As clouds slowly move across the sky, casting shadow over the ocean, the amount of sunlight received near the surface of the ocean dramatically reduced. By changing different parameters such as thickness of clouds and the speed they move at, you can program your Mazarra LED Lighting System to simulate any given day as sunny, cloudy, windy, overcast or rainy.



This diagram illustrates the amount of sunlight received near the surface of the ocean, on a typical sunny day.

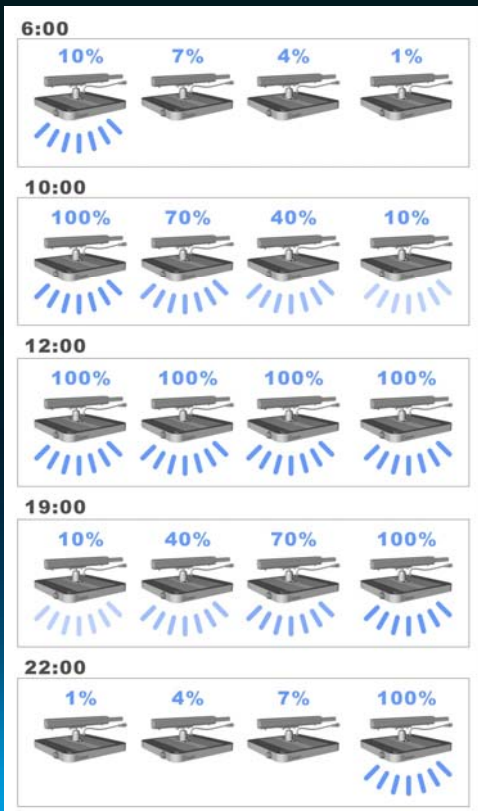
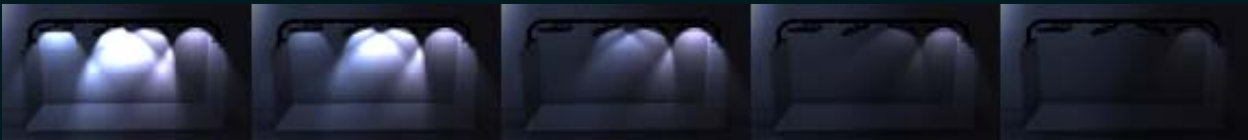
Dawn/Dusk Mode

When more than one Mazarra LED Module is connected to the Controller Unit, you can activate the Dawn/Dusk mode will simulate the effect of the sun slowly rises and sets over the horizon.

Dawn Mode:



Dusk Mode:



The above diagrams illustrated a sample Dawn/Dusk Mode behavior utilizing 4 LED Modules.

Specifications

Controller Unit

Dimensions (W x L x H)	Φ120mm × 60mm x 30mm (4.7" x 2.4" x 1.2")
Weight	300 g (10 oz)

LED Module

Dimensions (D x L)	Φ230mm × 230mm x 35mm (9" x 9" x 1.5")
Weight	2 kg (4.4 lb)

Power Supply

Input Voltage	AC 100 - 240V / 50 - 60 Hz
Output Voltage	16V
Output Current	10A

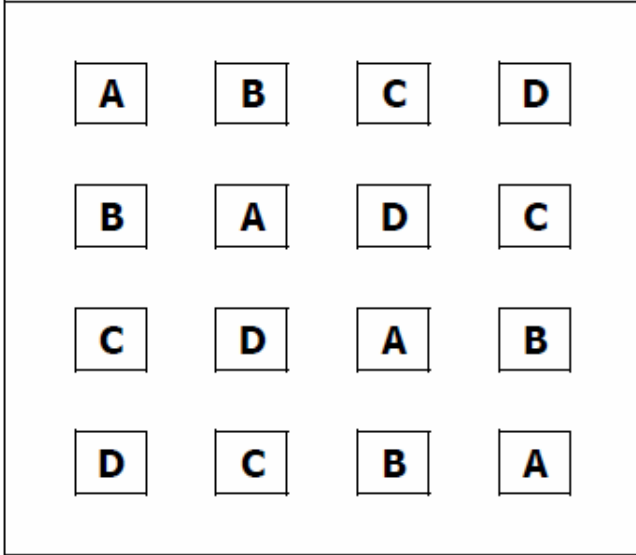
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Mazarra Channels Layout

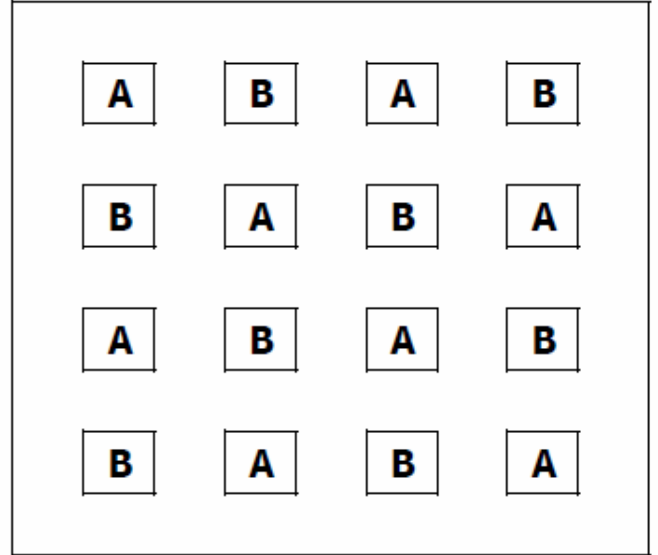
The Mazarra P Series has 4 LED channels, while the S Series has 2 LED channels.

Mazarra Channels Layout

P-Series, 4 Channels



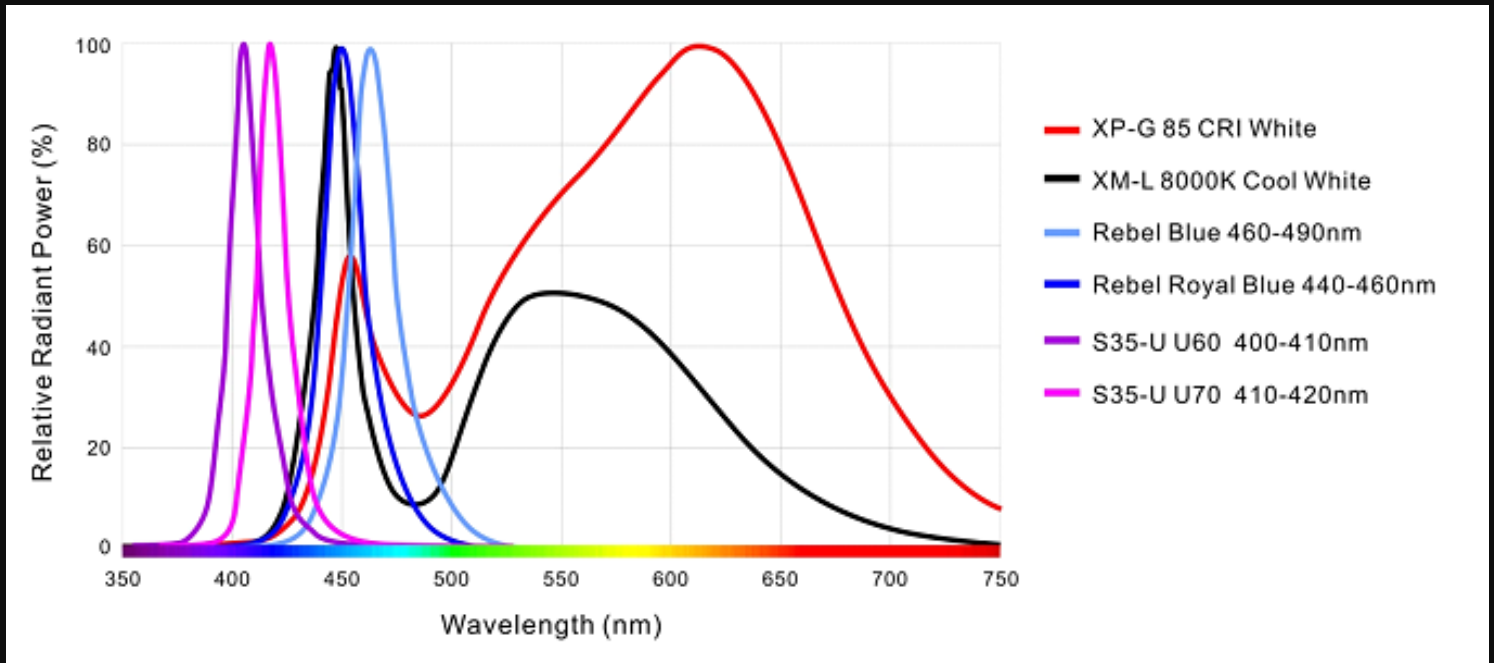
S-Series, 2 Channels



LED Color Spectrum

The Mazarra P Series utilize Cree XM-L, Cree XP-G, Philips Rebel ES and Super Actinic LED chips, while the Mazarra S Series utilize Cree XP-E LED chips.

Mazarra P Series



Mazarra S Series

