

Datasheet

LuxaLight LED-strip RGB Protected (24 Volt, 96 LEDs, 5050, IP64)

LS24RGB96X5050PLX

Version: 2025-03-10.1

Product description

The **LuxaLight Professional RGB LED Strip** is designed for lighting applications where high color rendering and dynamic color effects are required. This strip contains **96 RGB 5050 LEDs per meter**, providing high light density and even coverage for optimal performance. The strip delivers excellent light quality, ideal for applications where precise color rendering and true-to-life color accuracy are essential, with the added flexibility of adjustable RGB color settings.

This RGB LED strip operates on a **24V power supply** and is equipped with **3M 4905 VHB tape**, ensuring strong and reliable adhesion to various surfaces, making it ideal for permanent installations. The strip also features an **IP64 rating**, making it suitable for use in environments that may be exposed to dust and **moist environments**.

Key Features:

- **96 RGB 5050 LEDs per Meter:** The strip features 96 RGB 5050 LEDs per meter, ensuring excellent brightness and dynamic color rendering for various lighting applications.
- **RGB LED Light Output:** The RGB LEDs offer full color customization options, making the strip ideal for creating adjustable lighting settings and ambiance in different environments.
- **IP64 Rating:** The strip has an IP64 rating, making it dustproof and suitable for use in **moist environments**.
- **24V Connection:** The professional RGB LED strip operates on a **24V power supply**, ensuring stable and reliable operation.
- **Flexible Design:** The flexible design makes the LED strip perfect for interior applications, custom lighting systems, and other flexible light installations.
- **3M 4905 VHB Tape:** The strip is equipped with 3M 4905 VHB tape, ensuring strong and durable adhesion to various surfaces.
- **PCB Thickness:** The PCB has a thickness of **3 oz/ft²**, providing robust support and efficient heat dissipation, extending the lifespan of the LED strip and ensuring consistent performance.

Applications:

- **Interior Lighting:** Perfect for lighting up the interiors of homes, offices, workspaces, and other environments where functional and dynamic lighting is desired.
- **Custom Lighting Systems:** Ideal for custom lighting installations in various settings, such as retail environments or architectural lighting.
- **Ambient and Accent Lighting:** The flexible color options make this strip ideal for creating ambient and accent lighting in various environments.
- **Workspace Lighting:** Can be used to light up workspaces and storage areas, ensuring users can easily see what they need.
- **Dashboard and Control Panel Lighting:** Can be applied to light up dashboards and control panels, making it easier to operate systems under different lighting conditions.
- **General Lighting:** Suitable for illuminating various objects and surfaces in both commercial and residential spaces.

Benefits:

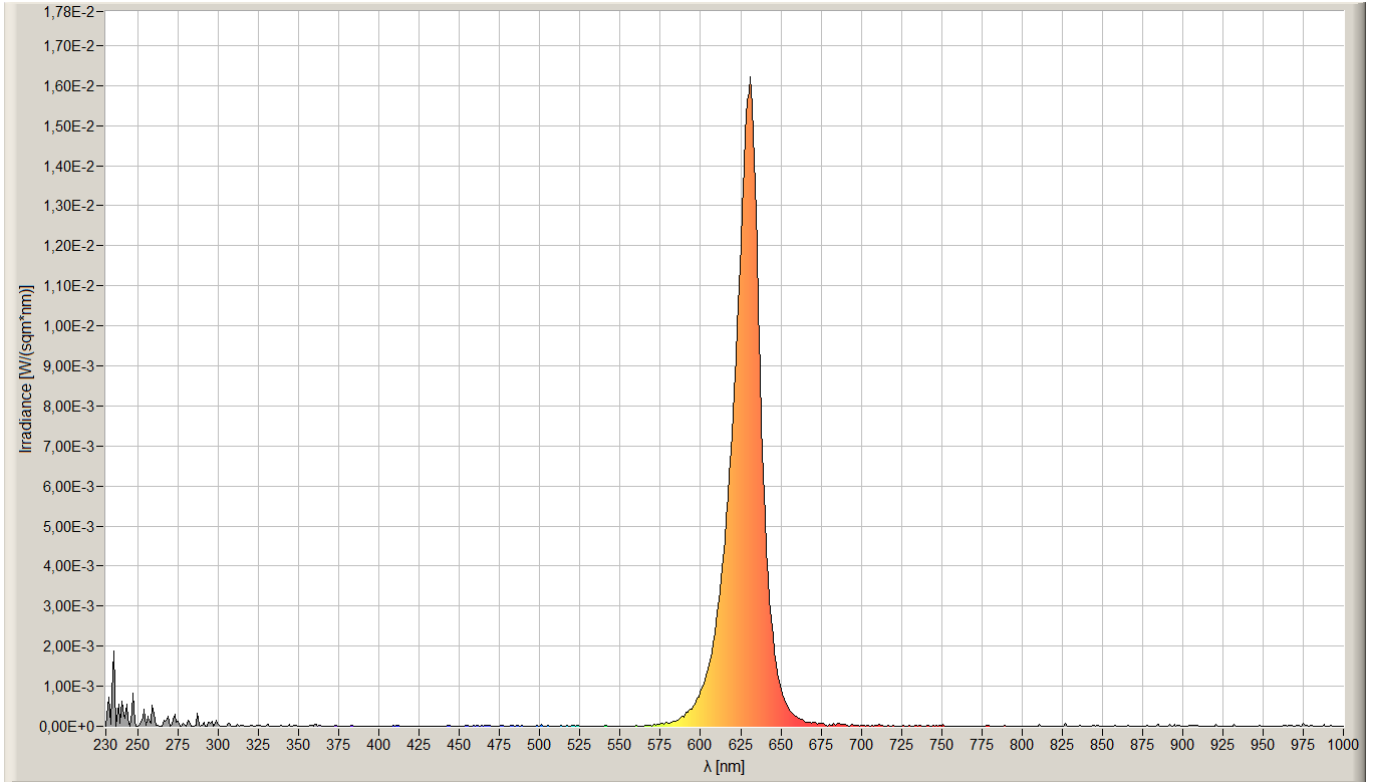
- **Dynamic RGB Color Options:** The **96 RGB 5050 LEDs per meter** offer full color customization options, ideal for creating adjustable lighting settings and ambiance.
- **Flexible and Customizable:** Thanks to its flexible design, the strip can be easily integrated into various lighting setups and is perfect for custom systems.
- **Even Light Distribution:** The strip provides consistent and even light distribution, ensuring pleasant lighting without harsh shadows.
- **Reliable Performance:** The RGB LED strip operates on a **24V power supply** and delivers efficient, stable performance, making it an ideal choice for long-term use in various applications.
- **Durable and Energy-Efficient:** RGB LED technology is energy-efficient, meaning the strip is not only cost-effective but also contributes to a more sustainable lighting solution.
- **Strong Adhesion:** The **3M 4905 VHB tape** ensures reliable adhesion for easy and durable installation on various surfaces.

Technical specifications

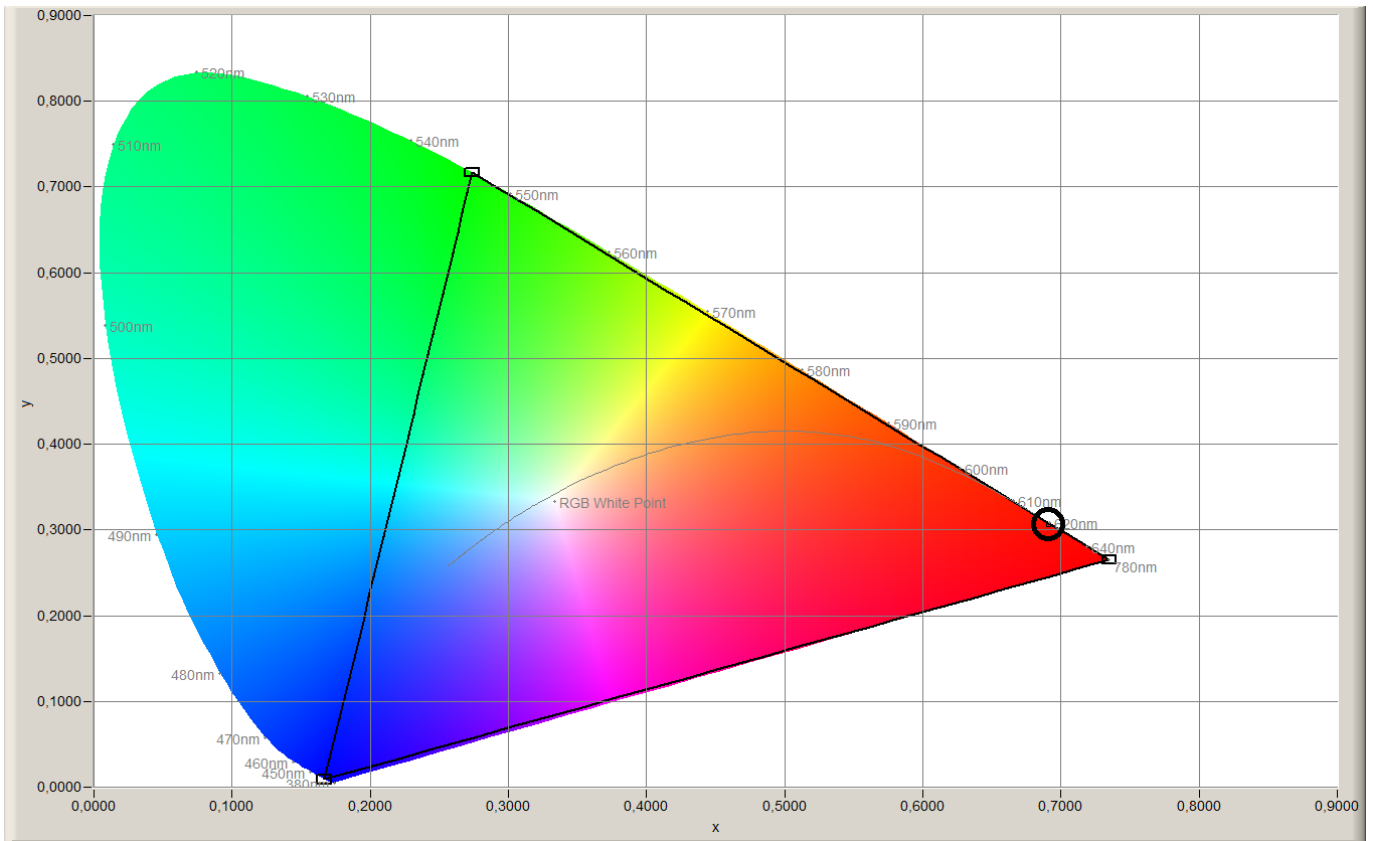
General	
Brand	LuxaLight
LEDs / meter	96
LED type	5050
Length per reel	10 m
Length per segment	62.5 mm
LED strip width	12.00 mm
LED strip thickness	4.00 mm
PCB color	White
Mantle material	Silicon
Warranty	5 years
Lifetime	70000 hours
Lighting	
Luminous Flux	1080 lm
Luminous flux red	320 lm
Luminous flux green	464 lm
Luminous flux blue	296 lm
Wave length Red	620~630 nm
Wave length Green	510~525 nm
Wave length Blue	455~470 nm
BIN	3 SDCM
Beam angle	120 °
LB waarde	L80B50
Electronics	
Working voltage	24V
Current / meter	1.04 A / meter
Power consumption per meter	23.00 W / meter
PCB material	Copper
Environmental	
Operating temperature	-20 ~ +60 °C
Storage temperature	-40 ~ +80 °C
IP class	IP 64
Directives - standards - certificates	
Directives	RoHS CE
Safety standards	EN60598-1 EN62031 IEC62471

Measurement results

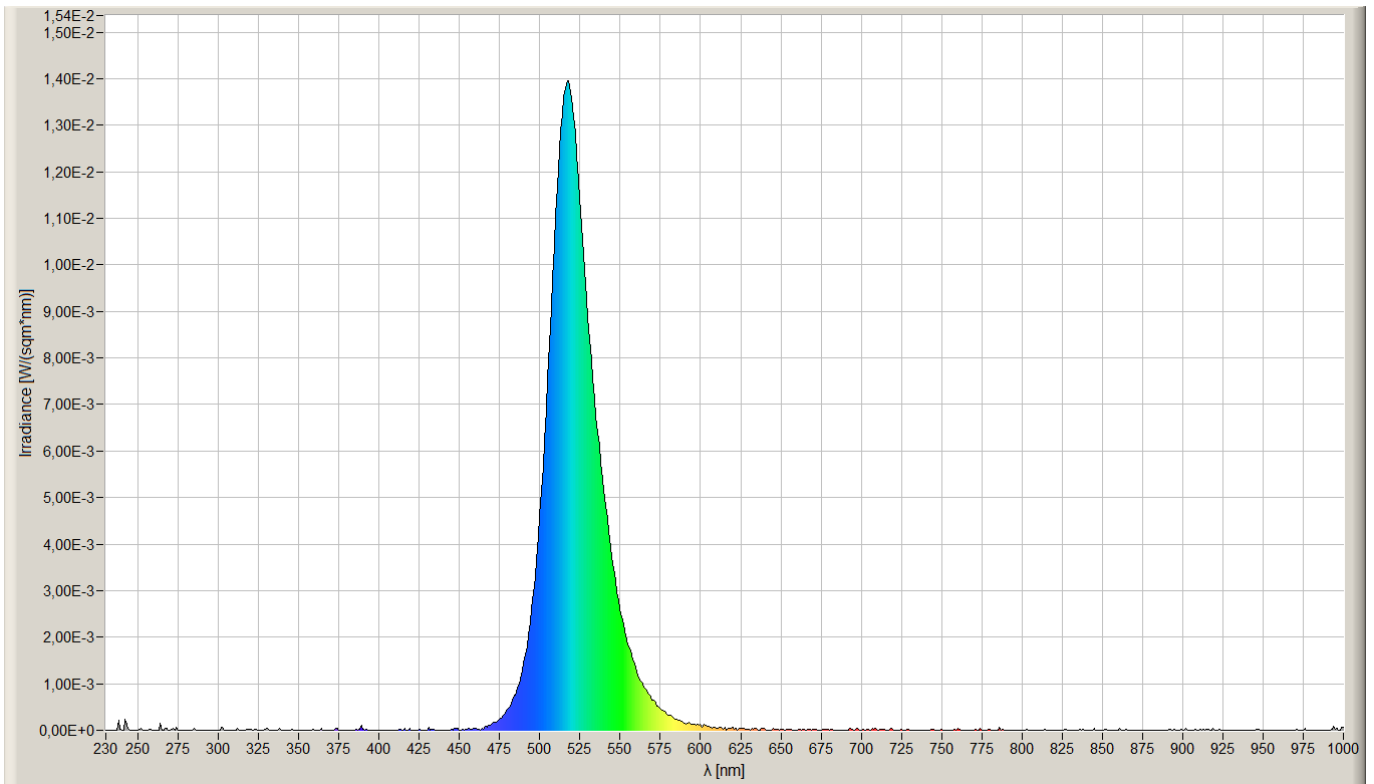
Wavelength RED



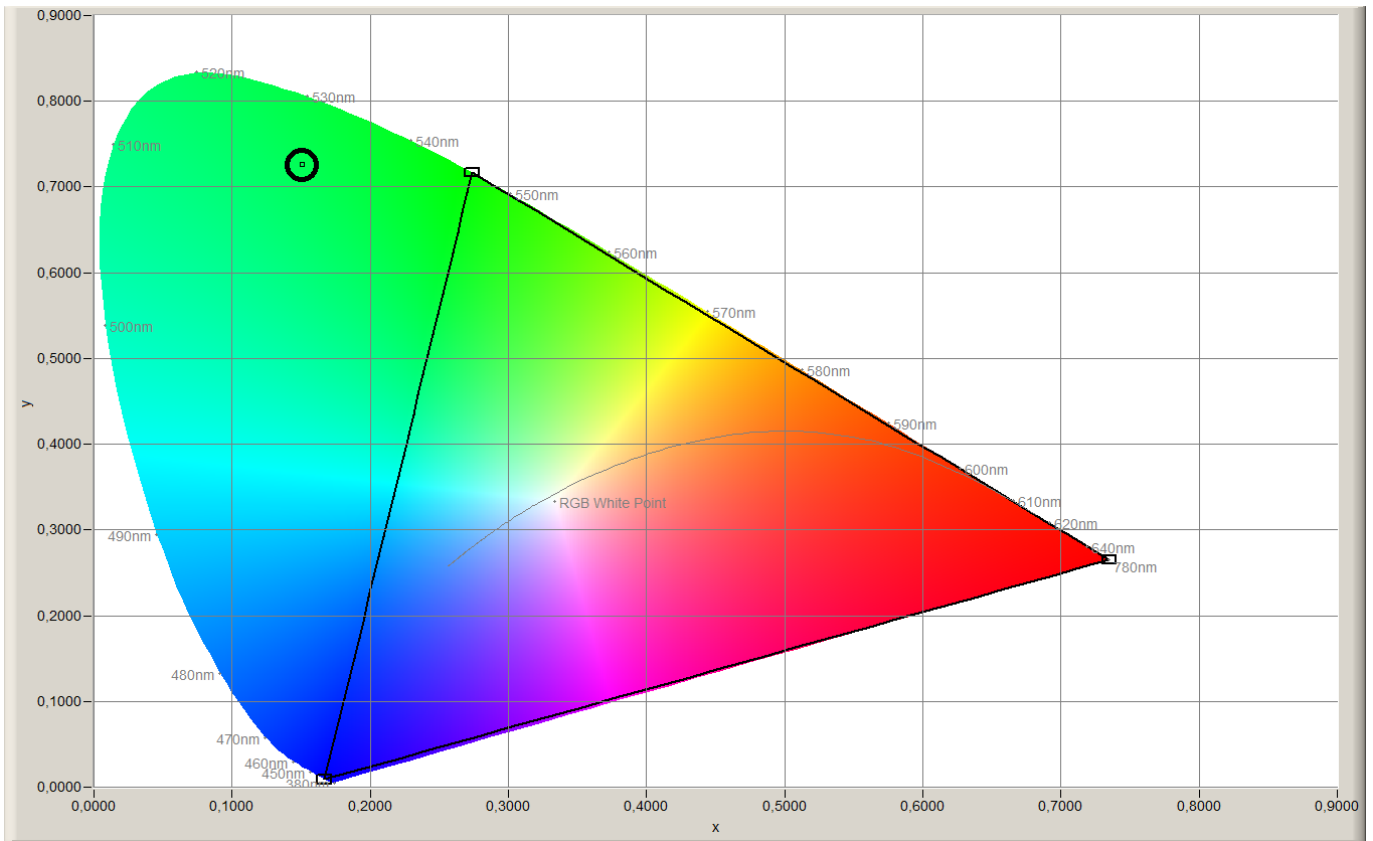
CIE1931 Red



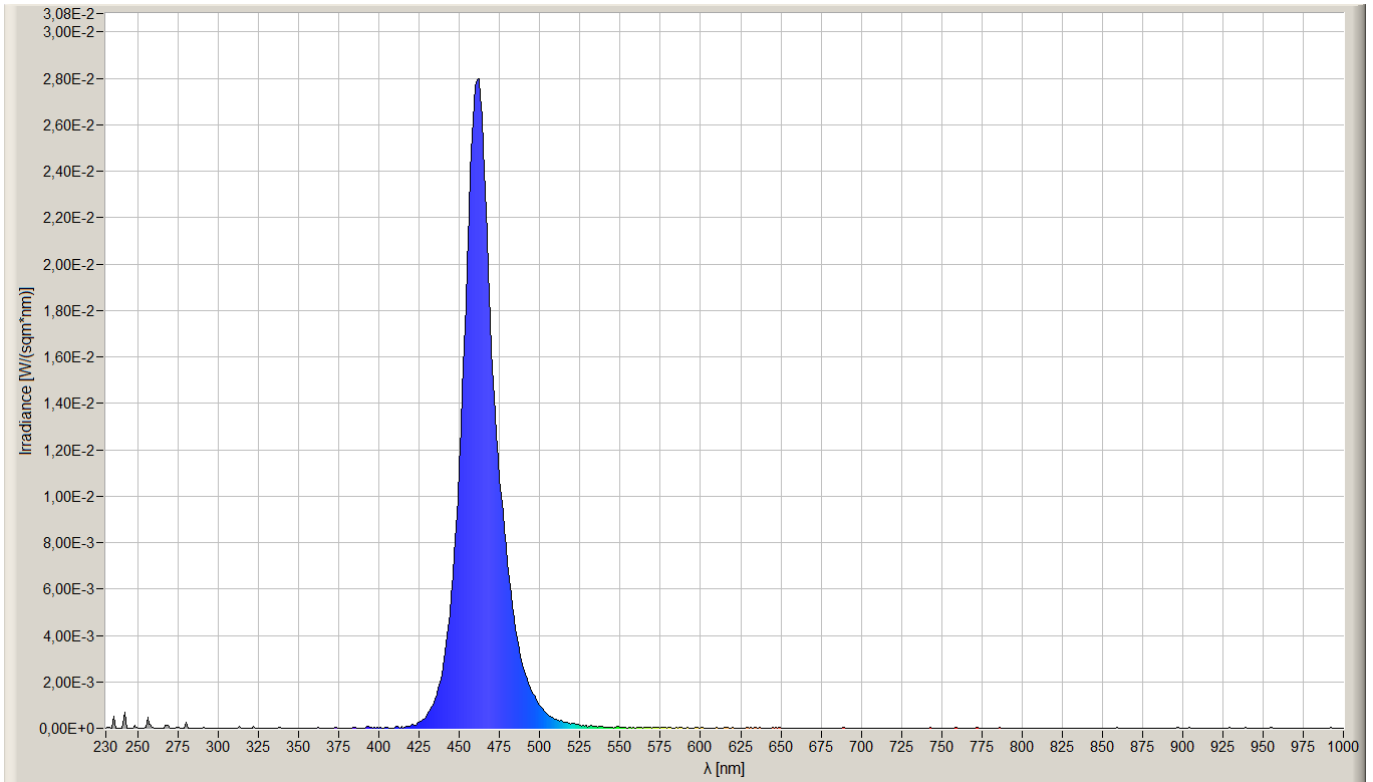
Wavelength Green



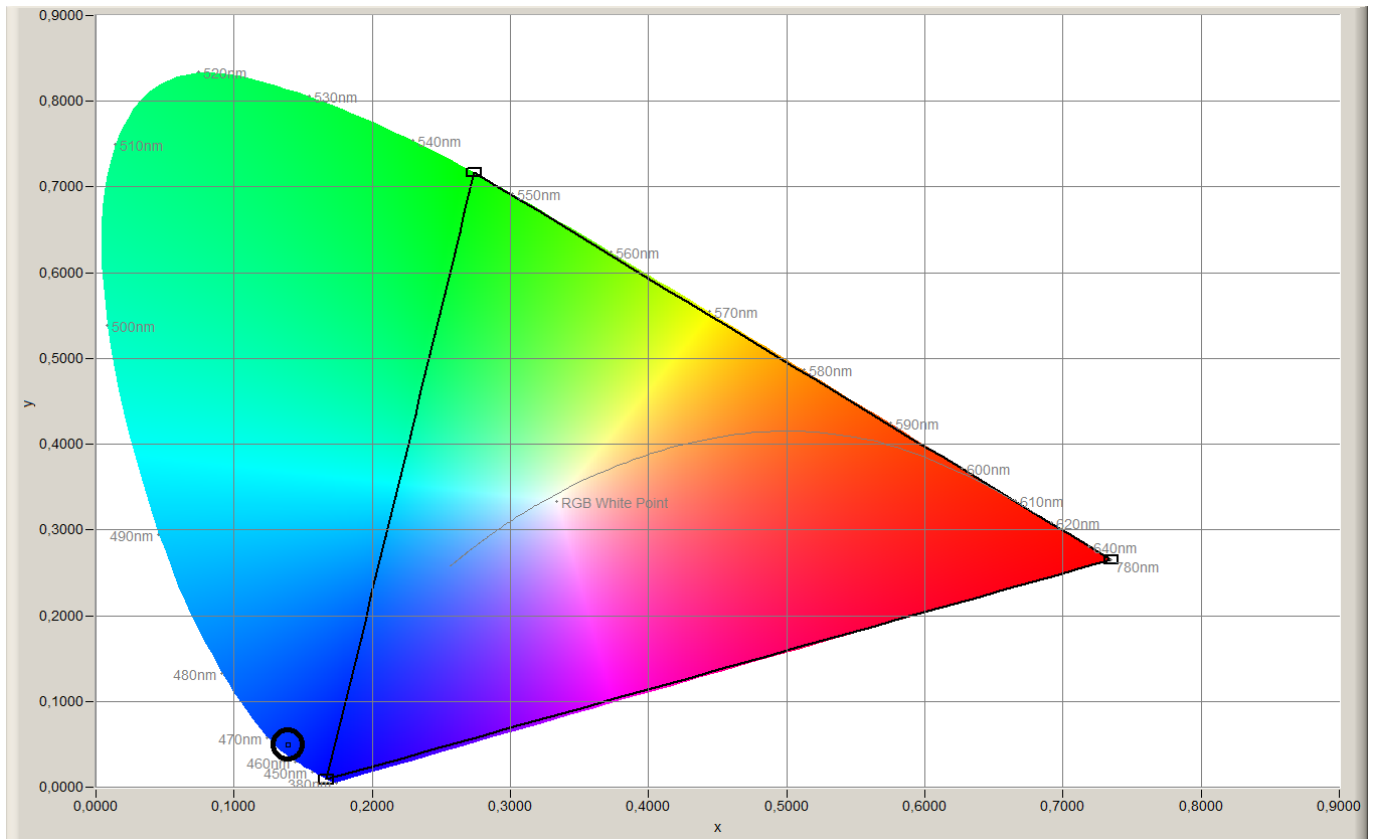
CIE1931 Green



Wavelength Blue



CIE1931 Blue



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