

# ROE

CREATIVE DISPLAY



## Carbon Series RGB+

Full Spectrum LED Panels

IN- & OUTDOOR LED PANELS



# "Unprecedented Color Accuracy with ROE Visual's Full Spectrum LED panels"

The newest evolution in LED display for film and live events



## When realism is crucial

ROE Visual's RGB+ Full Spectrum panels offer advanced solutions for achieving realistic on-camera results, particularly for accurately rendering skin tones and improving reflections. By incorporating additional emitters beyond the standard RGB format, these panels extend the spectral bandwidth, deliver higher brightness, and provide more accurate color representation. This results in a greater tonal and color rendering range compared to typical RGB panels.

## Bridging the Gap

The innovative RGB+ technology allows for a higher tonal and color rendering range, creating a highly realistic on-camera image. Both RGB-W and RGB-CA versions are available in the CB5MKII platform.



# Key Benefits

Full spectrum "Fills in the gaps" between red, green, and blue which are critical for lighting all the world around us.



Full Spectrum



Unprecedented Viewing Angle



Efficient Heat Dissipation



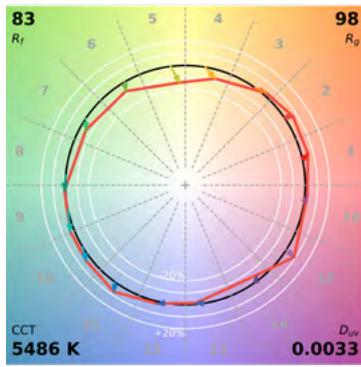
Lower Power Consumption



Lower Power Consumption and Excess Heat Production

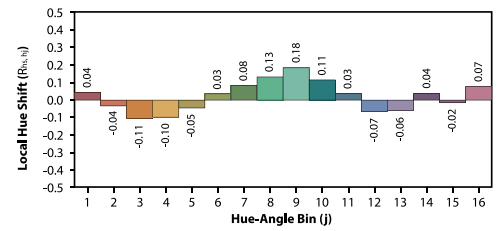
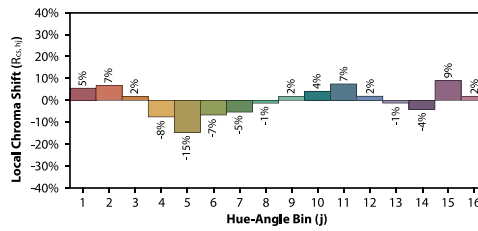
Improved Viewing Angle due to the emission characteristics of LED phosphor



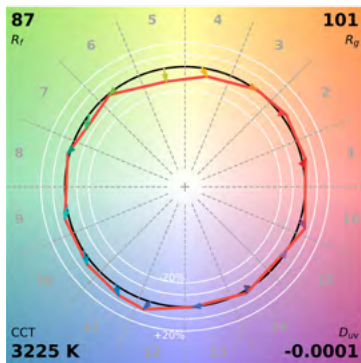


5500k

IES TM-30-18 Colour Rendition Report

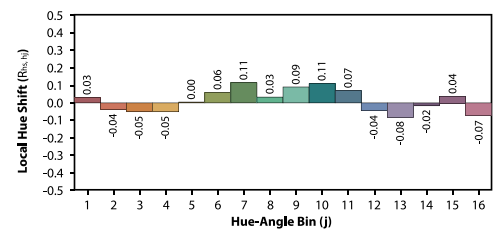
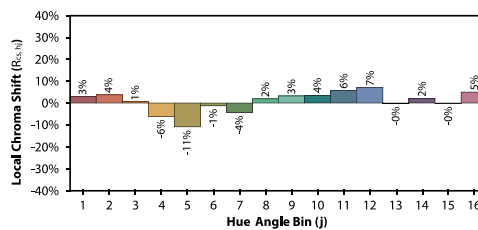


Colours are for visual orientation purposes only. Created with Colour v0.4.3-250-gd88936618.



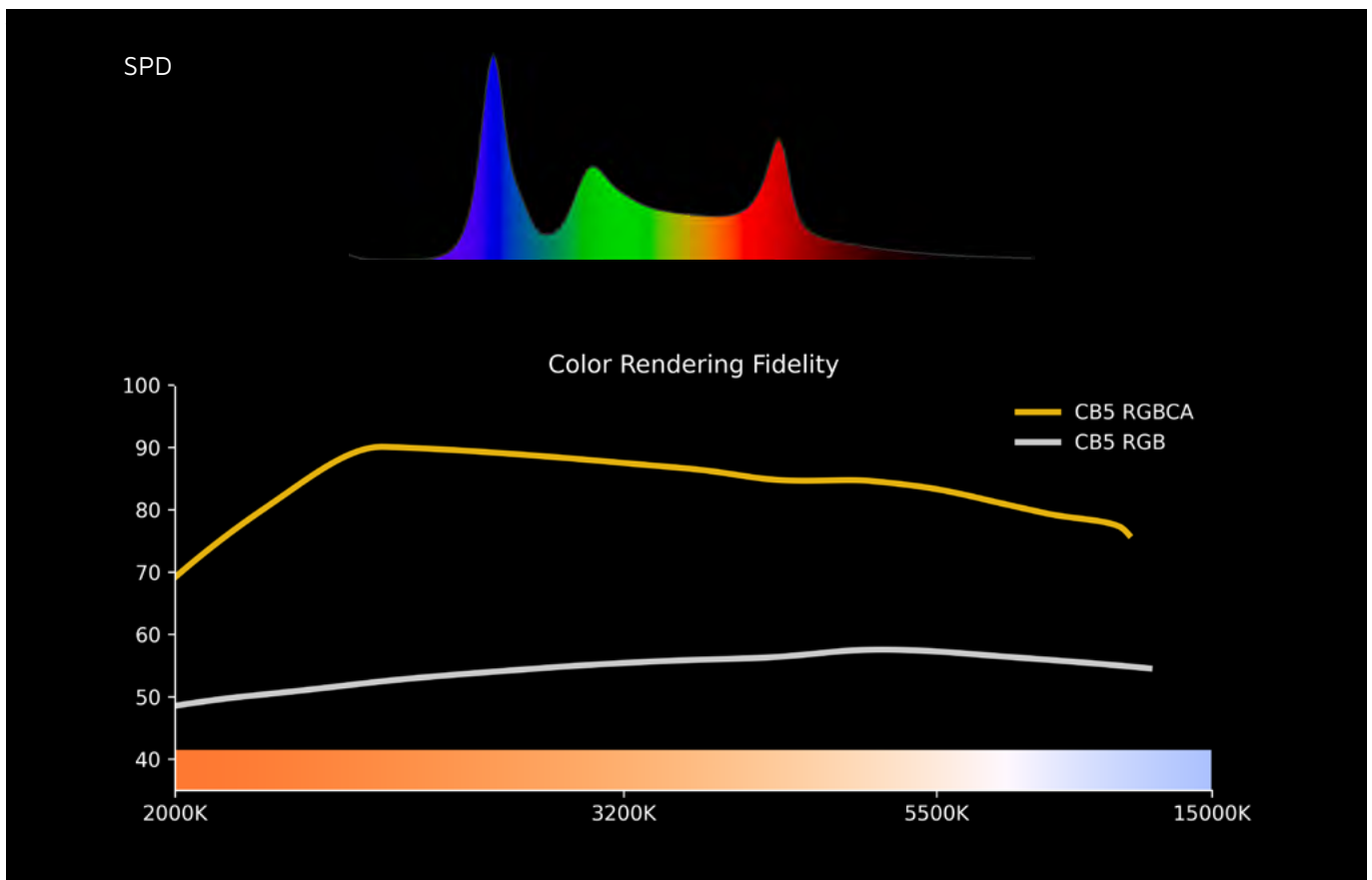
3200k

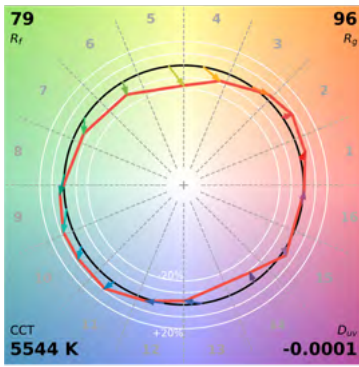
IES TM-30-18 Colour Rendition Report



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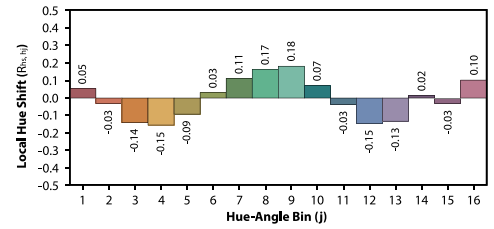
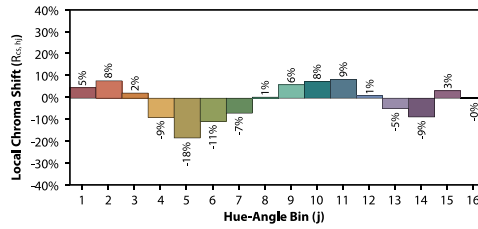
ROE Full Spectrum maintains consistently high color quality across a wide range of color temperatures that exist in natural scenes, such as the color of the sky or the reflections from a low sunset. In addition, RGBCA provides the fullest spectrum lighting not only for white, but for all colors in the image creating perfect reflections through a jungle canopy or under an ocean tide.



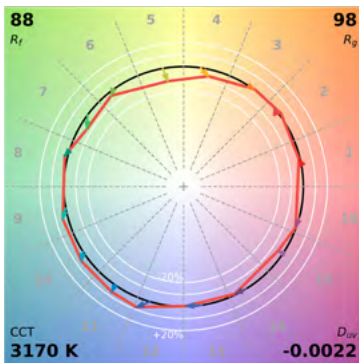


5500k

## IES TM-30-18 Colour Rendition Report

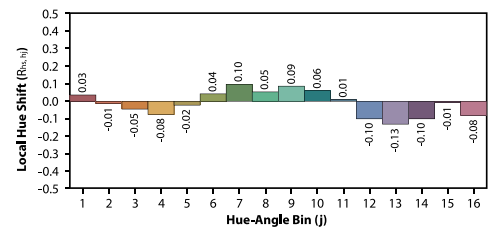
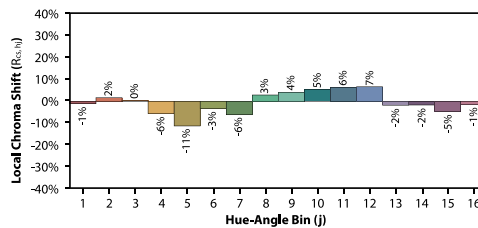


Colours are for visual orientation purposes only. Created with Colour v0.4.3-250-gd88936618.



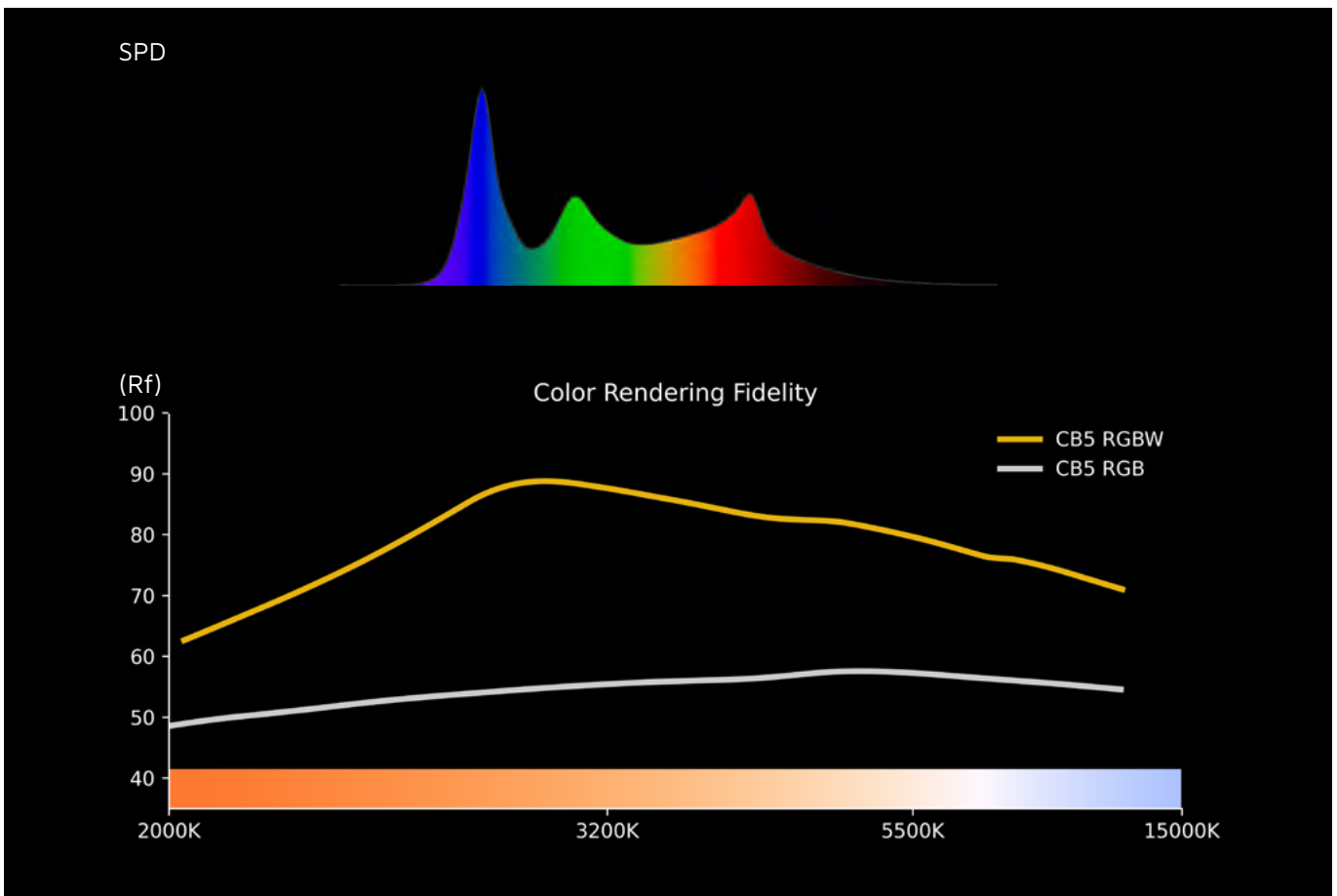
3200k

## IES TM-30-18 Colour Rendition Report



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At key color temperatures, such as daylight 5500K and incandescent or evening sun at 3200K, ROE Visual's RGB+ Full Spectrum LED panels reach the highest levels of color rendering fidelity available in an LED panel while maintaining the same high performance on refresh rate, bit depth, and image quality.





## COMPARISON

RGB

★★★★★



RGBW

★★★★★



RGBCA

★★★★★



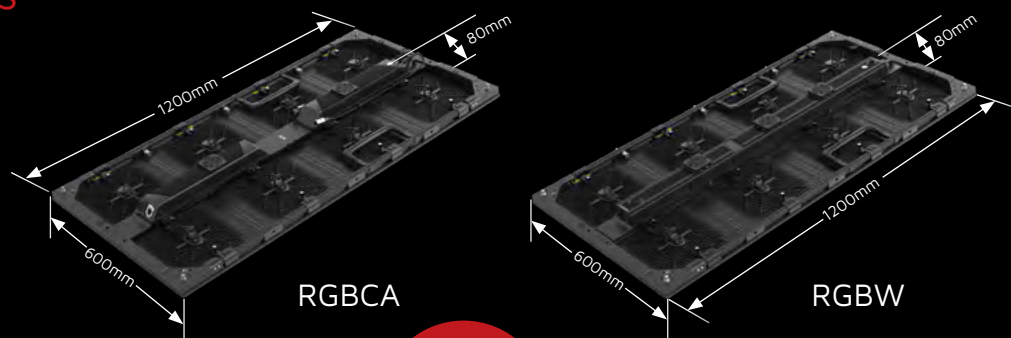
## Specifications

Carbon MarkII	CB5 MKII (RGBCA)	CB5 MKII (RGBW)
LED Configuration	RGB+Cyan+Amber	RGB+White
Pixel Pitch	5.77mm	5.77mm
Max Brightness Calibrated (RGBW)	4400nits	3200nits
TM-30(Rf)	80	80
SSI(3200K)	68	68
SSI(6500K)	62	52
Panel Dimension	600mm x 1200mm x 80mm   23.6" x 47.2" x 3.1"	600mm x 1200mm x 80mm   23.6" x 47.2" x 3.1"
Panel Resolution (H x V)	104 x 208	104 x 208
Panel Weight	15.5kg; 34.17lbs	17.5kg; 38.58lbs
Power Consumption Max / Average	340W / 170W	750W / 375W
BTU Max / Average	1160 / 535	2560 / 1180
Transparency	Solid	Solid
Serviceability	Front / Rear	Front / Rear
Curving (Concave & Convex)*1	Concave 15°-Convex 10°	Concave 15°-Convex 10°
Max. Hanging (panels)*2	12	12
Max. Stacking (panels)*3	5	5
Viewing Angle Horizontal	170°	160°
Viewing Angle Vertical	170°	160°
Scan Ratio	1/4	1/4
Refresh Rate	7680Hz	7680Hz
Gray Scale	16bit	16bit
Frame Material	Carbon Fiber + Magnesium Alloy	Carbon Fiber + Magnesium Alloy
Processing Platform	Megapixel / Brompton(developing)	Brompton
Operational Temp / Humidity	-20°~45°C, 10~90%RH   -4°~113°F, 10~90%RH	-20°~45°C, 10~90%RH   -4°~113°F, 10~90%RH
Storage Temp / Humidity	-40°~60°C, 10~90%RH   -40°~140°F, 10~90%RH	-40°~60°C, 10~90%RH   -40°~140°F, 10~90%RH
IP Rating (Front / Rear)	IP65	IP40
Certifications	CE, ETL, FCC, UKCA	CE, ETL, FCC, UKCA

\*Note: The specifications are for reference, actual values may vary.

1. Convex curving ability only applies to custom tiles.
2. The max. hanging amount is only valid when the ROE Visual hanging bar and complementary accessories are used and in an indoor situation, safety factor is 8. No climbing is allowed.
3. The max. stacking amount is only valid when the ROE Visual stacking system and complementary accessories are used, sufficient ballast is applied and in an indoor situation. No climbing is allowed.

## Dimensions



[www.roevisual.com](http://www.roevisual.com)

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