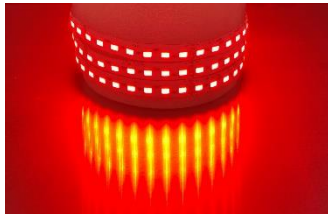
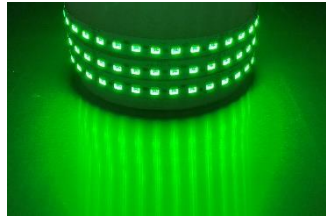


RGBW-HP FLEX Series



Red



Green



Blue



White



FLEX RGBW with 3” Sections!

STANDARD CCTs FOR WHITE	
3000K	4000K
6500K	
STANDARD CRI _s	
80	

Features and Description:

- High Efficiency Premium Flexible LED Tape
- Drive lengths up to 15 FT.
- A++ Energy Efficiency Class
- LED Tape is Cuttable after every 3” Section.
- High Temperature Adhesive Backing
- Suitable for DLC 5.1.
- Luminaire Class: UL Class 2
- Maximum efficiency and ROHS compliant
- Assembled with UL recognized components.

Applications:

- Strip Light
- Linear Applications
- Display Lighting
- Edge Lighting
- General Illumination
- Cabinet Lighting





RGBW FLEX with 3” Sections

1- Module Ordering Code:

CRI	Part Number
80CRI	XXXXEZXXFXX80VX

Note: In the above part number,

XX stands for Length of the LED Flex strip,

XX CCT for White

XX stands for Total no. LEDs on the Flex strip,

X Wattage rating per FT

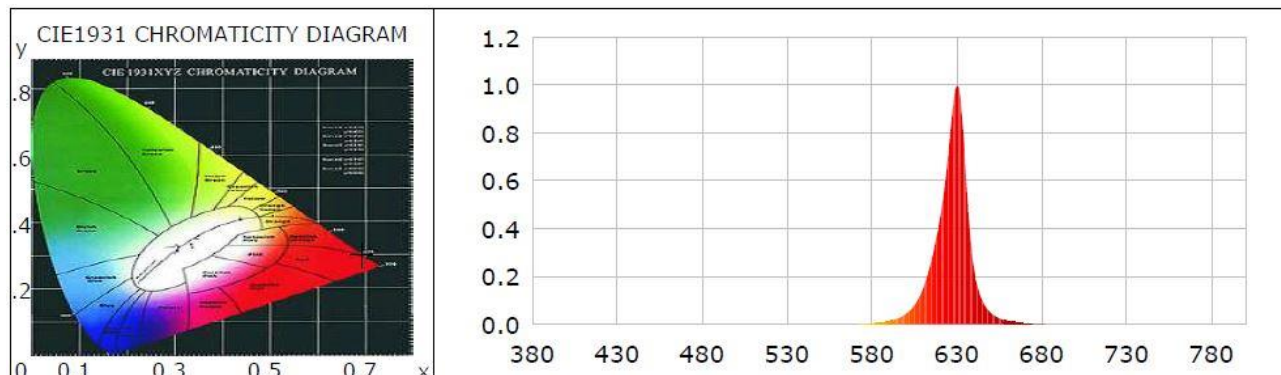
2- Photometric Parameters:

CCT	RED	GREEN	BLUE	4000K 80CRI
No. of LEDs per FT	28			
Voltage	24 VDC			
Current per LED	35 mA	25 mA	17 mA	52 mA
Current per FT	140 mA	102 mA	70 mA	210 mA
Total Lumen per FT	150 lm	330 lm	40 lm	680 lm
Luminous Efficacy per FT	44 lm/W	136 lm/W	24 lm/W	135 lm/W
Wattage per FT	3.36 W	2.45 W	1.68 W	5.04 W
Abs. Max Current per FT	640 mA			

*Characteristics at $T_j = 25^\circ\text{C}$ and above data is for Constant Voltage version.

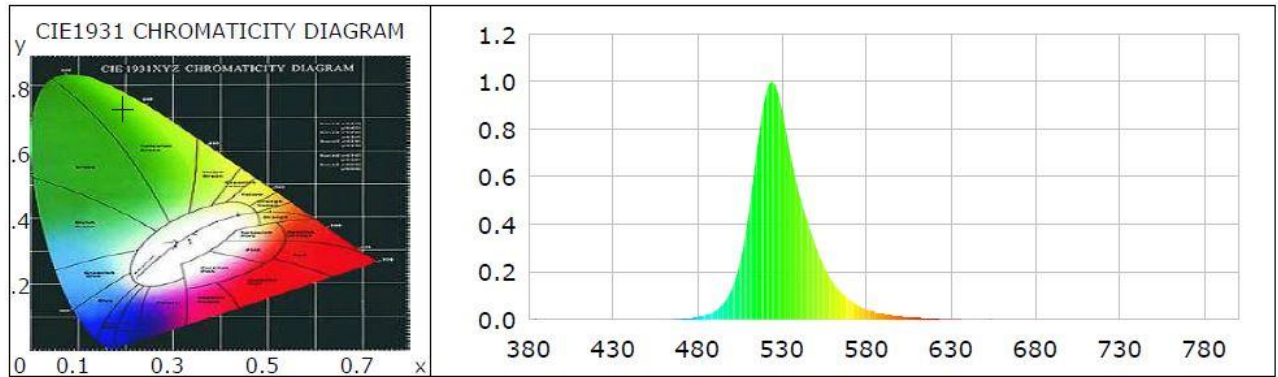
3- Light Characteristics:

a. RED



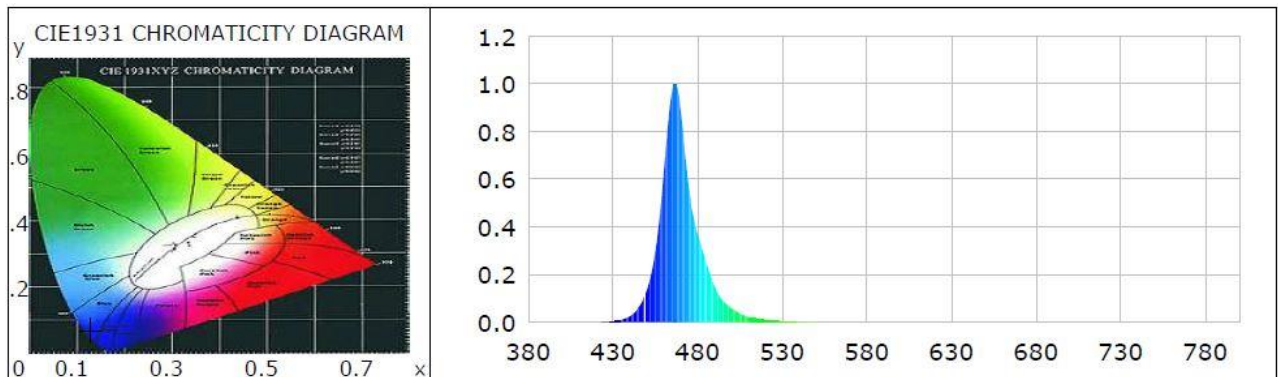
Chromaticity Coordinates	x=0.693, y=0.306	Color Ratio	R=0.956, G=0.043, B=0.000
Peak Wavelength	630.20 nm	CRI	$R_a=13.8$
Energy Efficiency Class	A (EU 874-2012)	Color Purity	0.999

b. GREEN



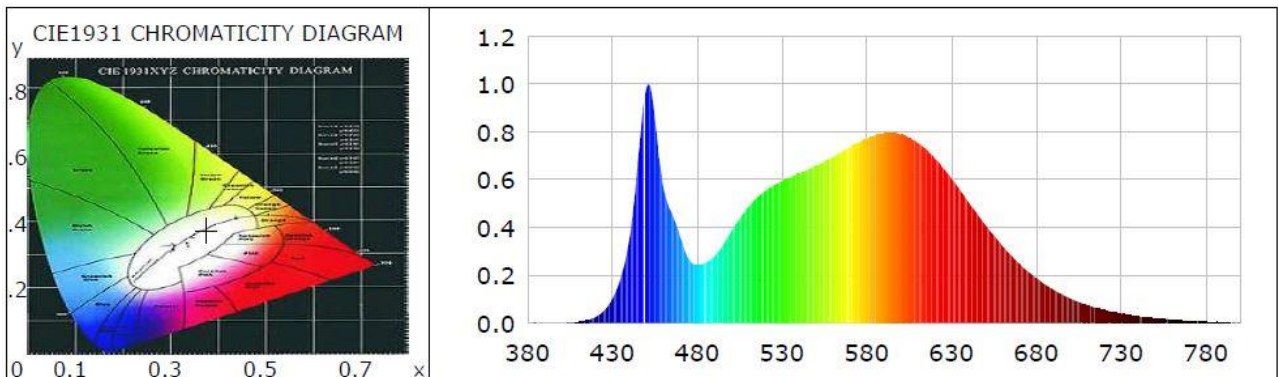
Chromaticity Coordinates	x=0.194, y=0.738	Color Ratio	R=0.003, G=0.989, B=0.008
Peak Wavelength	532.7 nm	CRI	$R_a = -29.4$
Energy Efficiency Class	A++ (EU 874-2012)	Color Purity	0.880

c. BLUE



Chromaticity Coordinates	x=0.128, y=0.070	Color Ratio	R=0.002, G=0.150, B=0.848
Peak Wavelength	466.50 nm	CRI	$R_a = -51.0$
Energy Efficiency Class	B (EU 874-2012)	Color Purity	0.969

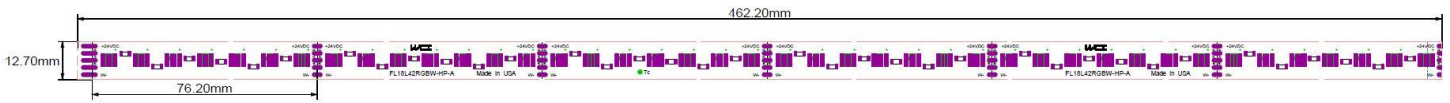
d. 4000K 80CRI



Chromaticity Coordinates	x=0.376, y=0.376	Color Ratio	R=0.180, G=0.784, B=0.037
CCT	4119K	CRI	$R_a = 83.2$
Energy Efficiency Class	A++ (EU 874-2012)	Color Purity	0.257



4- Dimensions and Structure:



Dimensions	Specification	Dimensions	Specification
<i>Module Length</i>	Up to 15FT	<i>Module Height</i>	1.25 mm
<i>Module Width</i>	12.70 mm	<i>PCB Thickness</i>	0.17 mm
<i>PCB Material</i>	FLEX PCB	<i>Module Weight</i>	5 g/FT

5- Absolute Maximum Ratings:

Parameter	RGBW (4 in 1 Chip)
<i>Forward LED Current I_F/FT</i>	160 mA
<i>LED Junction Temperature T_j</i>	105 °C
<i>Ambient/Operating Temperature T_a</i>	-40 to 85 °C

6- Wiring for Flex Strip:

Specification	Value
<i>Solder Wire Cross-Section, Fine Stranded</i>	0.14 – 0.34 mm ²
	26 – 22 AWG
<i>Wire Strip Length to Solder on Pads</i>	4.0 – 5.50 mm