

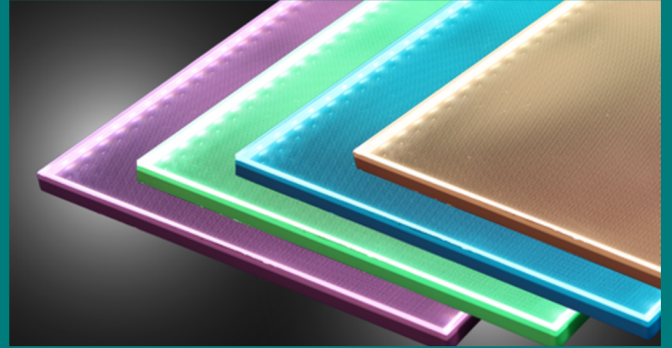
# Applelec LED Light Sheet High Efficiency RGBW

The thinnest RGBW LED Light Sheet on the market

Product Brochure



# Improved efficiency, with an industry leading 16 w/m



## Product description:

Applelec's new High Efficiency RGBW Light Sheet is one of the thinnest on the market, with an impressively slim 8mm profile and an industry-low wattage of just 16w/m.

Engineered with our patented heat sink technology, this innovative addition to the Applelec LED Light Sheet range offers exceptional performance without compromising on efficiency. Fully customisable and available in sizes up to 3000mm x 1200mm, it can also be crafted into shaped and circular panels to suit any design.

For added versatility, the light sheet can be paired with a matching ribbon tape, allowing perfect colour matching with any accent lighting in your scheme.

## Key features:

- Made in Britain
- Improved efficiency
- Access to pastel colour illumination with Red, Green, Blue and White (4000K)
- Bright, even illumination
- Industry leading 5 year warranty
- Now 8mm thick Applelec LED Light Sheet panel
- Patented Heat Sink Technology
- Runs cool to touch
- Alternative white LED temperature available subject to MOQ's

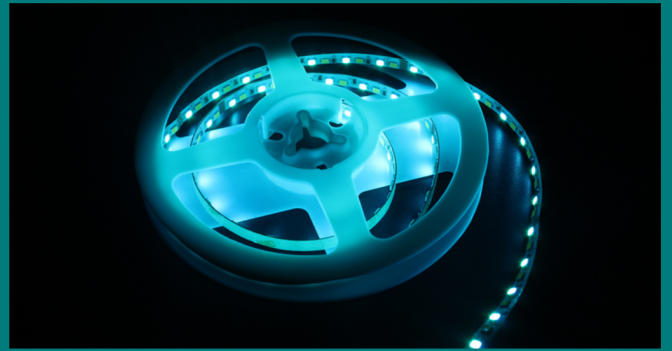
## Product data:

<b>Product Code</b>	LLS-RGBW-24V
<b>IP Rating</b>	IP54
<b>Width</b>	8mm
<b>Operating temperature</b>	-10° C to + 45° C
<b>Optimal Lifetime</b>	>50,000 hours
<b>Voltage</b>	24VDC

<b>Wattage</b>	16w/m RGB - 6w/m White - 10w/m
<b>CRI on White</b>	82+
<b>Warranty LED &amp; Acrylic</b>	5 Years
<b>Cut Point</b>	100mm

# Just want the LEDs?

No problem, we also offer this in off the shelf reels



## Product description:

Applelec are thrilled to announce the launch of their new High Efficiency RGBW LED Ribbon Tape, offering the same stunning pastel hues and vibrant colors, now with 3.2w/m reduced energy usage, making it an industry leader at 16w/m.

Perfect for use in Applelec LED Light Sheet, Channel letters, Snap Frames, Asta Linear, and more, this versatile ribbon tape sets new benchmarks for performance, flexibility, and efficiency.

Fully customisable, it pairs seamlessly with our advanced control gear for endless design possibilities. Take your signage to the next level with incredible lighting and even greater energy savings.

## Key features:

- Improved efficiency with a reduced wattage from 19.2w/m to 16w/m
- Access to pastel colour illumination with Red, Green, Blue and White (4000K)
- Bright, even illumination
- Industry leading 5 year warranty
- Alternative white LED temperature available subject to MOQ's

## Product data:

<b>Product Code</b>	HEF-RGBW-24V
<b>IP Rating</b>	IP54
<b>Width</b>	8mm
<b>Operating temperature</b>	-10° C to + 45° C
<b>Optimal Lifetime</b>	>50,000 hours
<b>Voltage</b>	24VDC

<b>Wattage</b>	16w/m RGB - 6w/m White - 10w/m
<b>CRI on White</b>	82+
<b>Warranty</b>	5 Years
<b>Cut Point</b>	100mm





## Spectrum Test Report - Sample No 1

**Specification** 0.5米RGBW 6mm软条测试 W

**Date** 2024-06-20 13:35:33

**Test by assessor** damin

**Instrument** HAAS-2000(EVERFINE)

### Test Condition

**Temperature** 25.3 Cent.

**RH** 65.0%

**WL Range** 350nm-1000nm

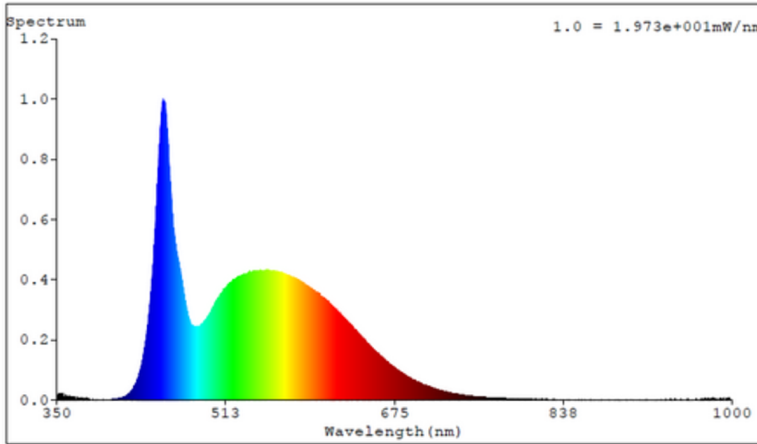
**IP** 40417 (62%)

**Test Mode** Accuracy Test

**T** 210 ms

### Spectrum

**Sensitivity** High



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3080$   $y = 0.3276$  /  $u' = 0.1951$   $v' = 0.4669$  ( $duv=4.90e-03$ )

CCT= 6780K Prcp WL: Ld=488.8nm Purity=9.0%

Render Index: Ra = 85.0 TM30:Rf=84 Rg=94

R1 =83 R2 =90 R3 =92 R4 =83 R5 =83 R6 =84 R7 =90

R8 =74 R9 =22 R10=74 R11=82 R12=56 R13=85 R14=96 R15=80

LEVEL:OUT WHITE:ANSI\_6500K

### Photometric & Radiometric Parameters

Flux = 549.76 lm Eff. : 123.56 lm/W Fe = 1.8337 W

### Electrical Parameters

V = 24.00 V I = 0.1854 A P = 4.449 W PF = 1.000

Freq=0.00 Hz

EVERFINE CORPORATION  
<http://www.everfine.cn>





## Spectrum Test Report - Sample No 2

**Specification** 0.5米RGBW 6mm软条测试 R

**Date** 2024-06-20 13:36:37

**Test by assessor** damin

**Instrument** HAAS-2000(EVERFINE)

### Test Condition

**Temperature** 25.3 Cent.

**RH** 65.0%

**WL Range** 350nm-1000nm

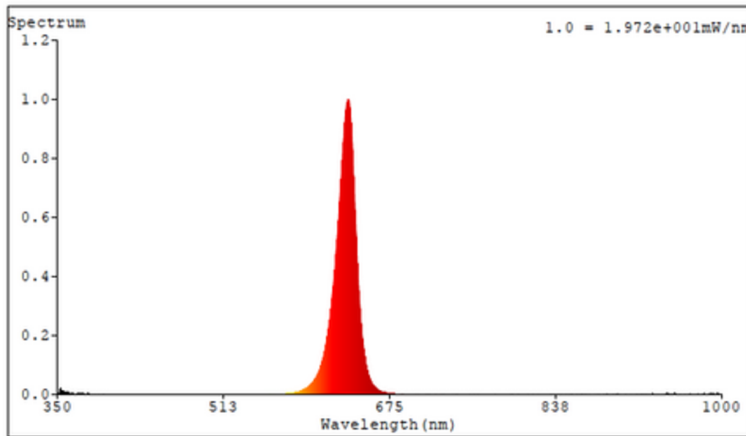
**IP** 42991 (66%)

**Test Mode** Accuracy Test

**T** 210 ms

### Spectrum

**Sensitivity** High



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.6977$   $y = 0.3022$  /  $u' = 0.5334$   $v' = 0.5200$  ( $duv = -8.59e-02$ )

CCT= 1001K Prcp WL: Ld=623.3nm Purity=100.0%

Peak WL: Lp=635nm FWHM: =19.6nm Ratio:R=95.7% G=4.3% B=-0.0%

Render Index: Ra = 27.5 TM30:Rf=0 Rg=0

R1 =8 R2 =77 R3 =34 R4 =0 R5 =3 R6 =87 R7 =12

R8 =0 R9 =0 R10=70 R11=0 R12=80 R13=29 R14=61 R15=0

LEVEL:OUT WHITE:OUT

### Photometric & Radiometric Parameters

Flux = 83.253 lm Eff. : 26.79 lm/W Fe = 462.74 mW

### Electrical Parameters

V = 24.00 V I = 0.1295 A P = 3.108 W PF = 1.000

Freq=0.00 Hz

EVERFINE CORPORATION  
<http://www.everfine.cn>



## Spectrum Test Report - Sample No 3

**Specification** 0.5米RGBW 6mm软条测试 G

**Date** 2024-06-20 13:37:10

**Test by assessor** damin

**Instrument** HAAS-2000(EVERFINE)

### Test Condition

**Temperature** 25.3 Cent.

**RH** 65.0%

**WL Range** 350nm-1000nm

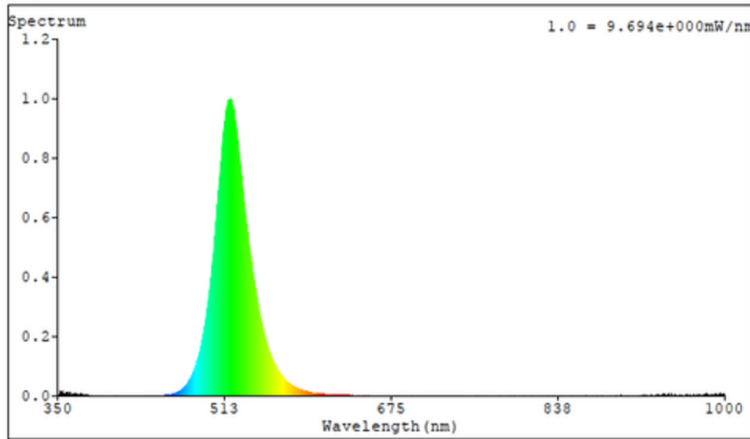
**IP** 49015 (75%)

**Test Mode** Accuracy Test

**T** 371 ms

### Spectrum

**Sensitivity** High



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.1576$   $y = 0.7060$  /  $u' = 0.0565$   $v' = 0.5695$  ( $duv=1.59e-01$ )

CCT= 8138K Prcp WL: Ld=523.1nm Purity=74.8%

Peak WL: Lp=518nm FWHM: =34.4nm Ratio:R=0.3% G=96.3% B=3.4%

Render Index: Ra = 0.0 TM30:Rf=2 Rg=9

R1 =0 R2 =0 R3 =0 R4 =0 R5 =0 R6 =0 R7 =0

R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=43 R15=0

LEVEL:OUT WHITE:OUT

### Photometric & Radiometric Parameters

Flux = 182.16 lm Eff. : 64.54 lm/W Fe = 399.25 mW

### Electrical Parameters

V = 24.00 V I = 0.1176 A P = 2.822 W PF = 1.000

Freq=0.00 Hz

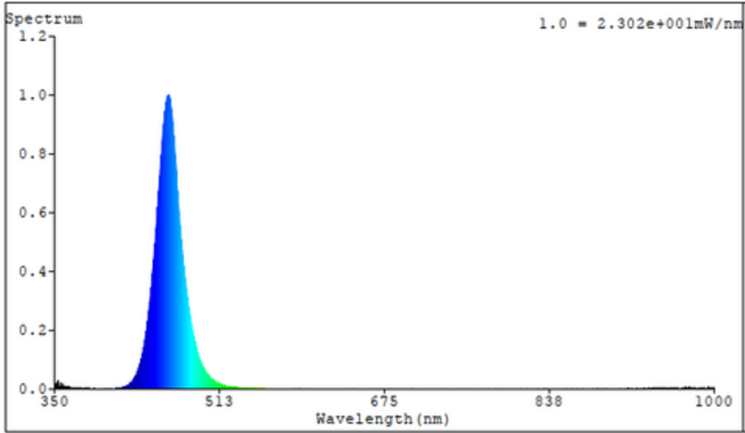
EVERFINE CORPORATION  
<http://www.everfine.cn>



## Spectrum Test Report - Sample No 4

<b>Specification</b>	0.5米RGBW 6mm软条测试 B	<b>Date</b>	2024-06-20 13:37:50
<b>Test by assessor</b>	damin	<b>Instrument</b>	HAAS-2000(EVERFINE)
<b>Test Condition</b>			
<b>Temperature</b>	25.3 Cent.	<b>RH</b>	65.0%
<b>WL Range</b>	350nm-1000nm	<b>IP</b>	44950 (69%)
<b>Test Mode</b>	Accuracy Test	<b>T</b>	185 ms
		<b>Sensitivity</b>	High

### Spectrum



### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.1395$   $y = 0.0531$  /  $u' = 0.1662$   $v' = 0.1424$  ( $duv = -1.72e-01$ )  
 CCT $\geq$ 100000K Prcp WL: Ld=466.3nm Purity=96.7%  
 Peak WL: Lp=463nm FWHM: =25.8nm Ratio:R=0.7% G=16.4% B=82.9%  
 Render Index: Ra = 0.7 TM30:Rf=0 Rg=101  
 R1 =0 R2 =0 R3 =0 R4 =0 R5 =5 R6 =0 R7 =0  
 R8 =0 R9 =0 R10=0 R11=0 R12=0 R13=0 R14=0 R15=5  
 LEVEL:OUT WHITE:OUT

### Photometric & Radiometric Parameters

Flux = 44.271 lm Eff. : 16.41 lm/W Fe = 719.14 mW

### Electrical Parameters

V = 24.00 V I = 0.1124 A P = 2.697 W PF = 1.000  
 Freq=0.00 Hz

EVERFINE CORPORATION  
<http://www.everfine.cn>