



L.T.F.

QFlex LED Tape Series

Color Tunable Soft LED Strip 2 Channel Adjustable CCT 2400K to 5000K



Specifications*	
CRI	Ra=95.1
R9 Value	85+
Lumens per Foot	≈617 lm/ft
LEDs Per Foot	72 LEDs/ft
Cut Lengths	50mm (≈2in)
Watts Per Foot	≈9.4W/ft
Input Voltage	24V DC
Luminous Efficacy	65.3 lm/W
Tape Width	10mm

*Measurements based on both channels at full power - 3400K



RoHS



FEATURES

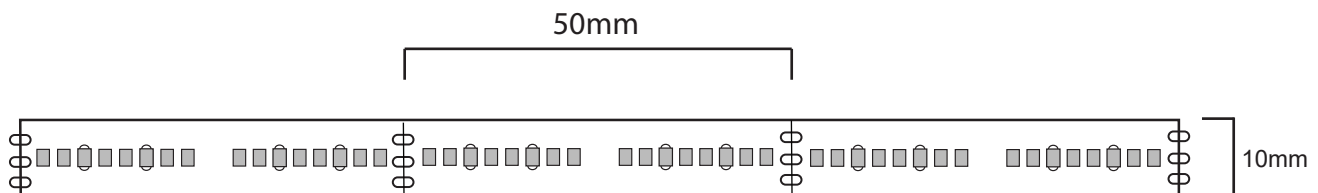
- High CRI 95+ and high R9 85+
- 2 channel adjustable CCT tuning range from 2400K to 5000K
- Title 24 Compliant
- Maximum run length 5 meters
- LM80 2835 LEDs
- Uniform, linear light output
- IP rating available IP20, IP54, and IP64
- High Efficiency LED tape
- Tight binning less than 3 MacAdam Ellipses
- UL Registered E481875
- 50,000 hour rating
- Ideal for use with LTF® UniDriver Series 24V Constant Voltage LED drivers

GENERAL SPECIFICATIONS

Model #	Input Voltage	Adjustable CCT	lm/m*	W/m*	lm/W*
QLUXF50001200LED902450	24V DC	2400k to 5000K	2024 lm/m	31 W/m	65.3 lm/W

*Measurements based on both channels at full power - 3400K

MECHANICAL SPECS





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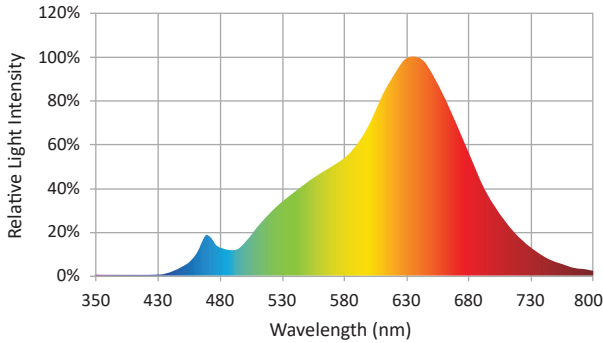


**Color Tunable Soft LED Strip
2 Channel Adjustable CCT 2400K to 5000K**

SPECTRORADIOMETRIC PARAMETERS

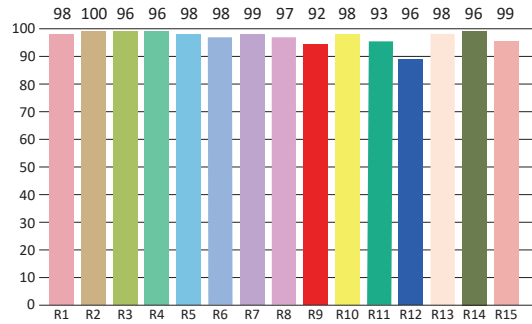
CRI TEST RESULTS

CCT 2400K (Warm channel only)



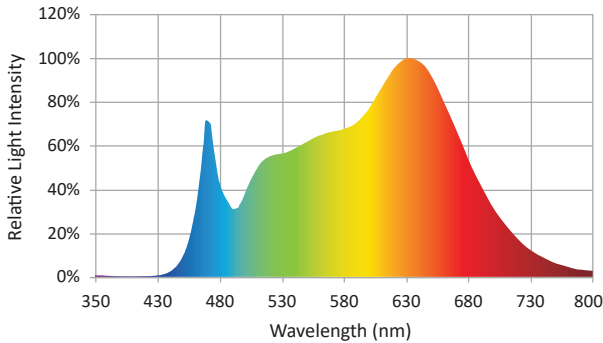
Luminous Flux: 1582 lm
Radiant Flux: 6.4 W
Efficacy: 56.3 lm/W
Nominal CCT: LED_3000K
 $x_0=0.4338$ $y_0=0.4030$
Chromaticity Coordinates:
 $x=0.4862$ $y=0.4176$ $u'=0.2763$ $v'=0.534$
Chromaticity Difference: +0.00099Duv
CCT: 2420K

CCT 2400K (Warm channel only)



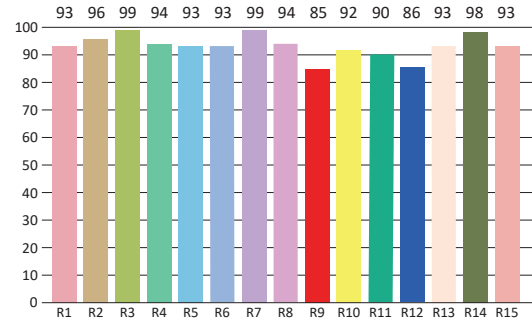
Color Rendering Index (CRI): Ra=97.7
Dominant Wavelength: 584nm
Peak Wavelength: 640nm
Colour Fidelity Index: Rf=96
Gamut Index: Rg=100
Color Purity: 0.7164
Color Ratio: Kr=48.8% Kg=44.6% Kb=6.6%
Bandwidth: 127.5nm

CCT 3400K (Both channels 100%)



Luminous Flux: 1244.69
Radiant Flux: 7.79 W
Efficacy: 65.3 lm/W
Nominal CCT: LED_3000K
 $x_0=0.4338$ $y_0=0.4030$
Chromaticity Coordinates:
 $x=0.4066$ $y=0.3826$ $u'=0.24$ $v'=0.508$
Chromaticity Difference: -0.00389Duv
CCT: 3402K

CCT 3400K (Both channels 100%)



Color Rendering Index (CRI): Ra=95.1
Dominant Wavelength: 582nm
Peak Wavelength: 635nm
Colour Fidelity Index: Rf=94
Gamut Index: Rg=102
Color Purity: 0.3687
Color Ratio: Kr=40.7% Kg=48.5% Kb=10.8%
Bandwidth: 196.3nm



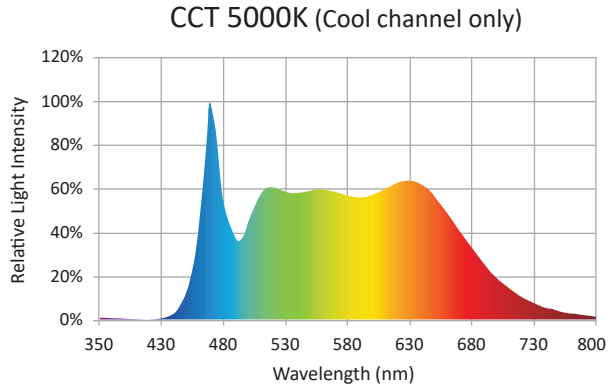
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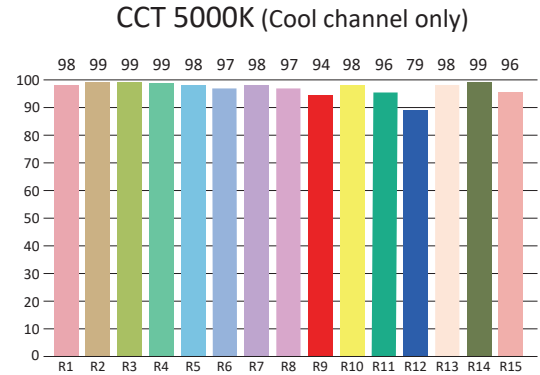
**Color Tunable Soft LED Strip
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SPECTRORADIOMETRIC PARAMETERS



Luminous Flux: 1844
Radiant Flux: 6.7 W
Efficacy: 68 lm/W
Nominal CCT: LED_3000K
 x0=0.4338 y0=0.4030
Chromaticity Coordinates:
 x=0.3472 y=0.3559 u'=0.2112 v'=0.4871
Chromaticity Difference: +0.00133Duv
CCT: 4938K

CRI TEST RESULTS



Color Rendering Index (CRI): Ra=98.2
Dominant Wavelength: 571nm
Peak Wavelength: 450nm
Colour Fidelity Index: Rf=93
Gamut Index: Rg=100
Color Purity: 0.1096
Color Ratio: Kr=33.7% Kg=52.1% Kb=14.2%
Bandwidth: 19.5nm

ELECTRICAL SPECIFICATIONS*

Parameter		Rated Value	Unit
Forward Voltage DC	VF	24V DC	V
Forward Current	IF	393	mA/12"
Power	PD	9.43	W/12"
CRI	Ra	95.1	/
Luminous Flux	Φ	1120.86	lm
PCB Width	W	10	mm
Copper Thickness	T	3	OZ
Min. Element Size	L	50mm	mm
Min. Buckling Radius	R	≥ 50	mm
Angle	2θ½	120	deg
Static Electricity	ESD	800	V
Junction Temperature	Tj	115	°C
IP Grade	IP	IP20 not waterproof	/
LED Color Temperature	CCT	2400K - 5000K Adjustable	K
LED Brightness	LM	≈8.6 lm/LED	lm

2θ½ is half-value angle
 Luminous Flux testing acceptable tolerance ±10%
 CRI testing acceptable tolerance: -1
 Voltage testing acceptable deviation" ±1V

*Measurements based on both channels at full power - 3400K
 The CCT of the LED strip will change after the strip is glued
 Luminous Flux is the brightness in lumens at 12" distance
 The item is high power, remember to use it with an aluminum profile for heat dissipation