



L.T.F.

QLUX LED Tape Series



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



CRI	95
R9 Value	88
Lumens per Foot	810 lm/ft
LEDs Per Foot	72 LEDs/ft
Cut Lengths	50mm (≈2in)
Watts Per Foot	≈8.7W/ft
Input Voltage	24V DC
Luminous Efficacy	≥88 lm/W
Tape Width	10mm

*Measurements based on both channels at full power



RoHS



FEATURES

- High CRI 95+ and high R9 90+.
- 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 Listed.
- 50,000 hour rating.
- Ideal for use with LTF® UniDriver Series. 24V Constant Voltage LED drivers.
- Ideal for Linear Aluminum extrusion fixtures



GENERAL SPECIFICATIONS

Model #	Input Voltage	Adjustable CCT	lm/m*	W/m*	lm/W*
QLUXF50001200LED902450	24V DC	2400k to 5000K	2500 lm/m	28.7 W/m	88lm/W

*Measurements based on both channels at full power

CCT TUNING - FLUX MIXING RATIO

Channel	2700K	3000K	3200K	3500K	4000K	5000K
Warm White	87.2%	70.2%	60.6%	48.0%	30.7%	3.4%
Cool White	12.8%	29.8%	39.4%	52.0%	69.3%	96.6%



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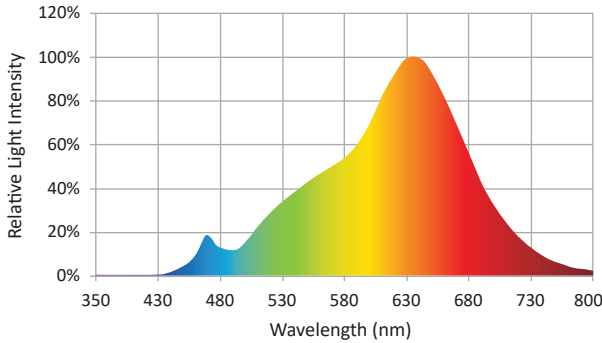


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SPECTRORADIOMETRIC PARAMETERS

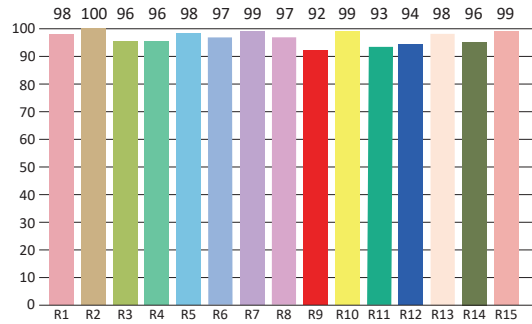
CRI TEST RESULTS

CCT 2400K (Warm channel only)



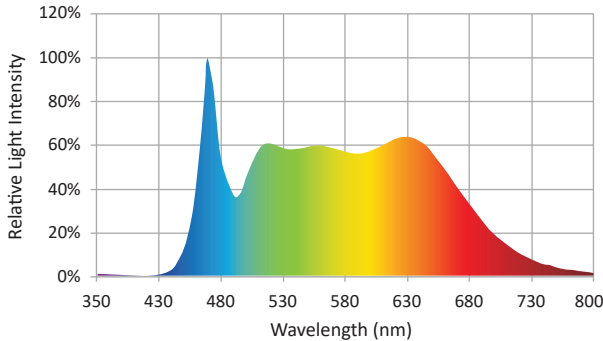
Luminous Flux: 1998.67 lm
Radiant Flux: 8.298 W
Efficacy: 66 lm/W
Nominal CCT: LED_3000K
 $x_0=0.4338$ $y_0=0.4030$
Chromaticity Coordinates:
 $x=0.4804$ $y=0.4165$ $u'=0.2731$ $v'=0.5327$
Chromaticity Difference: +0.00081Duv
CCT: 2479K

CCT 2400K (Warm channel only)



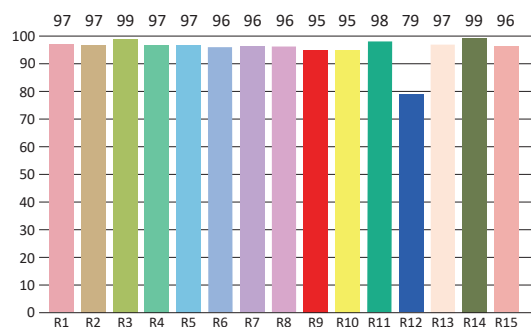
Color Rendering Index (CRI): Ra=97.7
Dominant Wavelength: 584nm
Peak Wavelength: 640nm
Colour Fidelity Index: Rf=95
Gamut Index: Rg=100
Color Purity: 0.6934
Color Ratio: Kr=48.1% Kg=45% Kb=6.9%
Bandwidth: 132.5nm

CCT 5000K (Cool channel only)



Luminous Flux: 2453.09 lm
Radiant Flux: 9.252 W
Efficacy: 80.4 lm/W
Nominal CCT: LED_3000K
 $x_0=0.4338$ $y_0=0.4030$
Chromaticity Coordinates:
 $x=0.3411$ $y=0.3513$ $u'=0.2088$ $v'=0.4839$
Chromaticity Difference: +0.00149Duv
CCT: 5154K

CCT 5000K (Cool channel only)



Color Rendering Index (CRI): Ra=96.8
Dominant Wavelength: 567nm
Peak Wavelength: 455nm
Colour Fidelity Index: Rf=90
Gamut Index: Rg=98
Color Purity: 0.0771
Color Ratio: Kr=33.3% Kg=52.2% Kb=14.5%
Bandwidth: 29nm



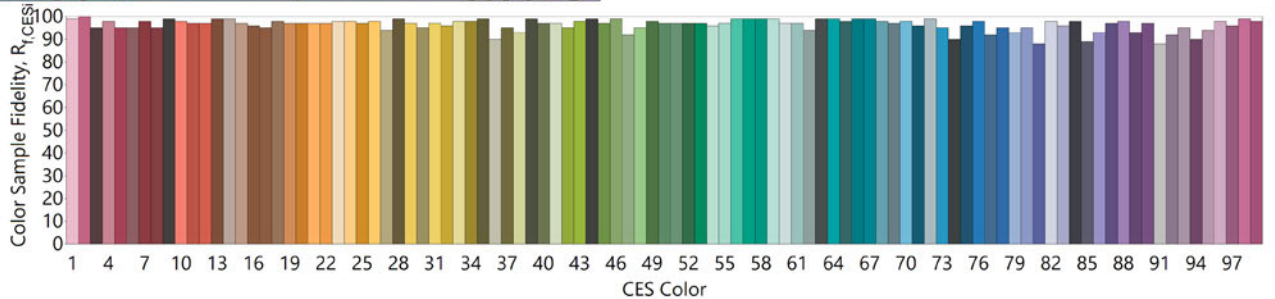
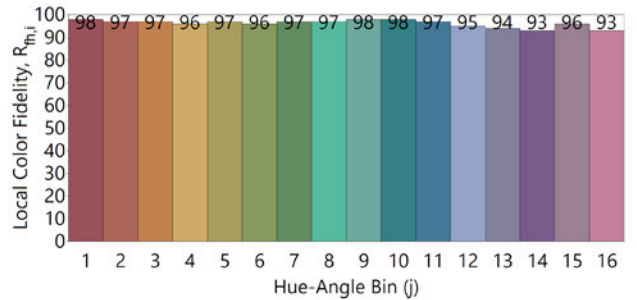
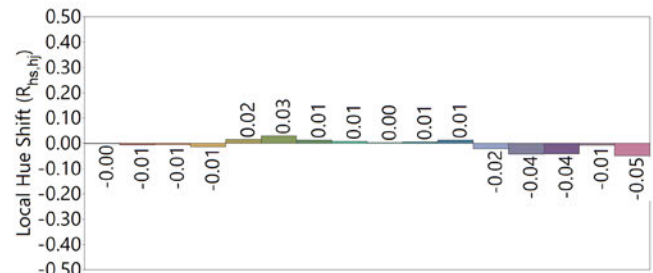
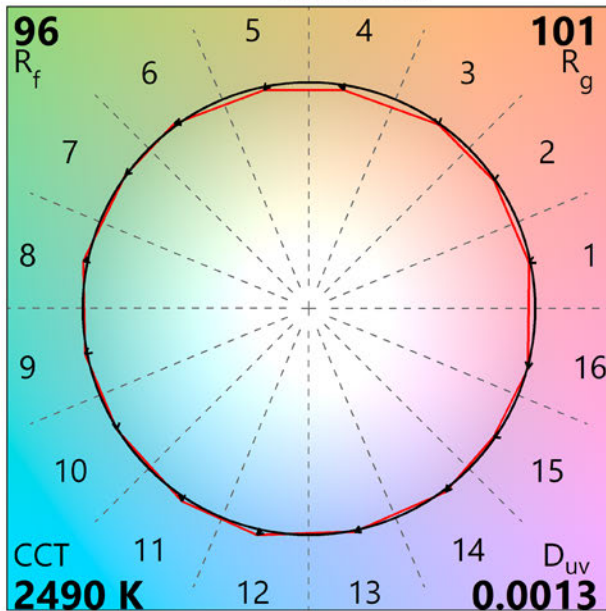
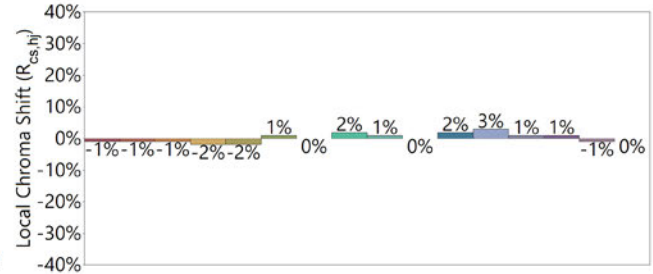
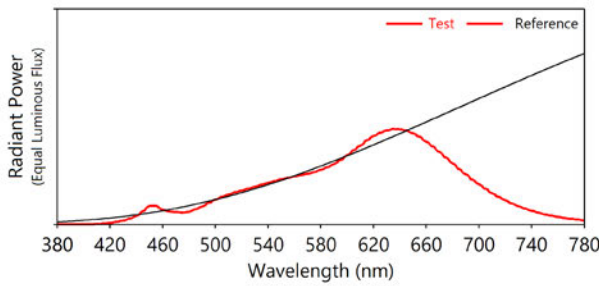
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TM30-18 REPORT - WARM CHANNEL





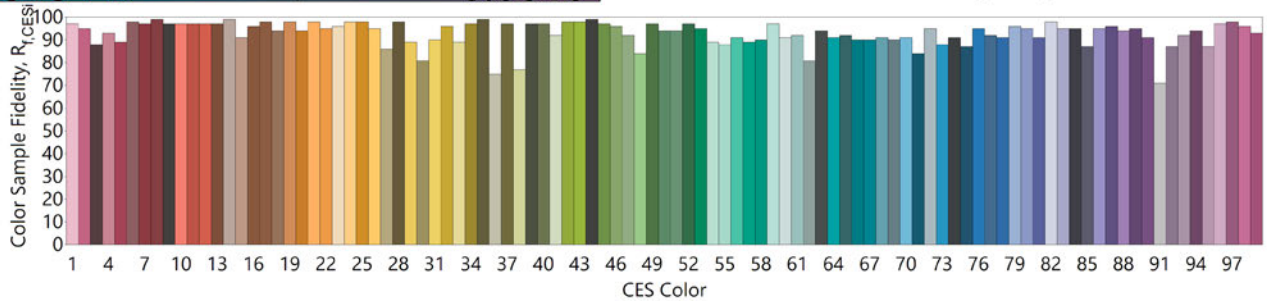
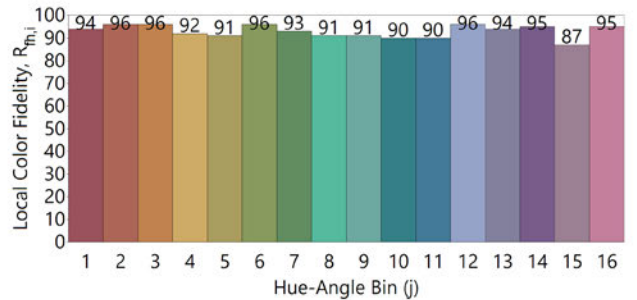
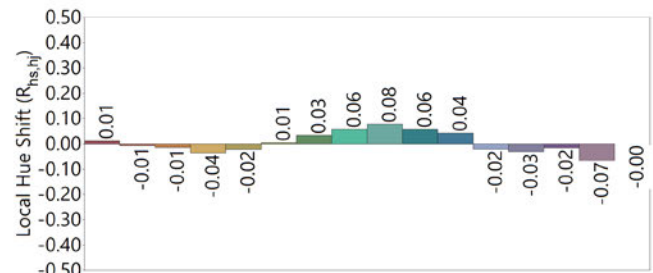
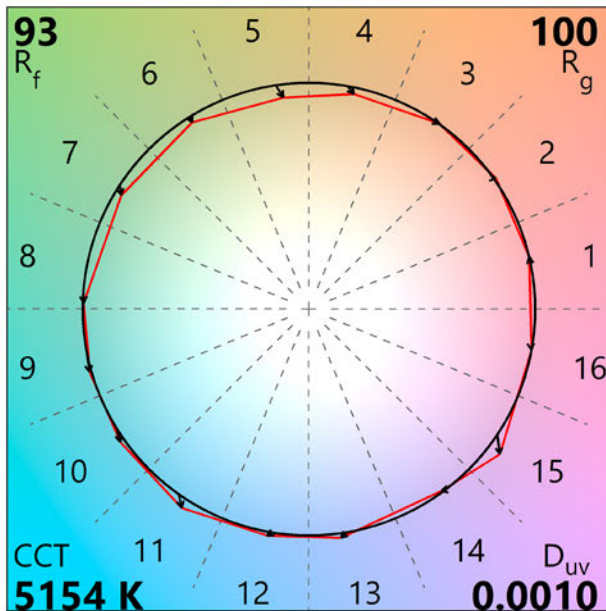
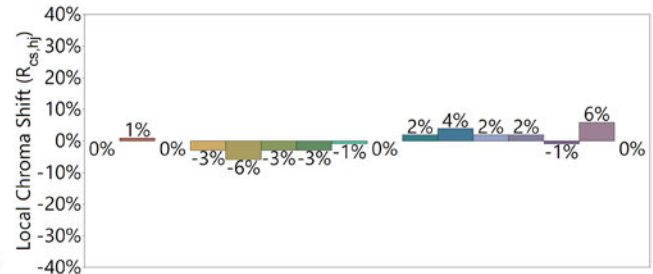
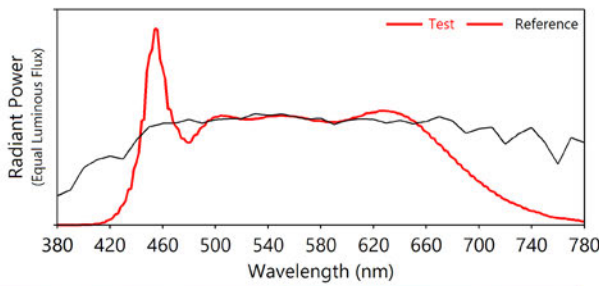
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TM30-18 REPORT - COOL CHANNEL





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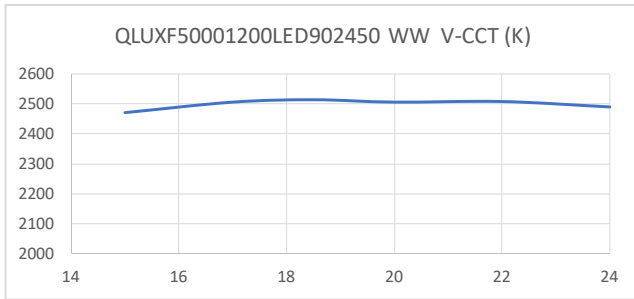
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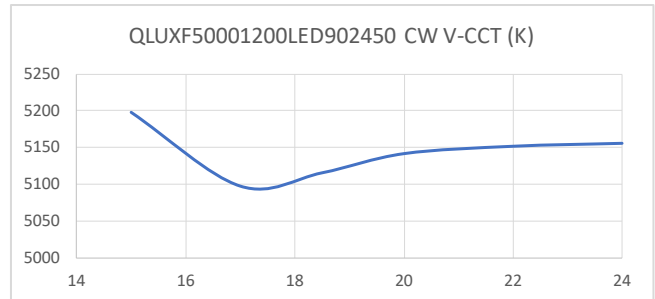
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PERFORMANCE CURVES

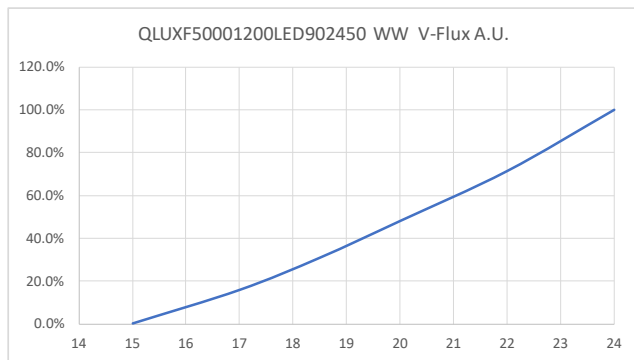
Warm Channel - Voltage vs. CCT



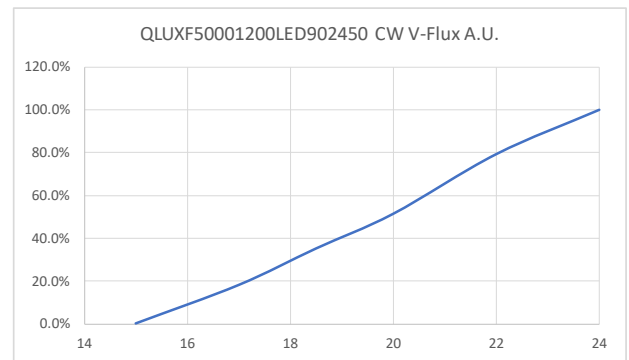
Cool Channel - Voltage vs. CCT



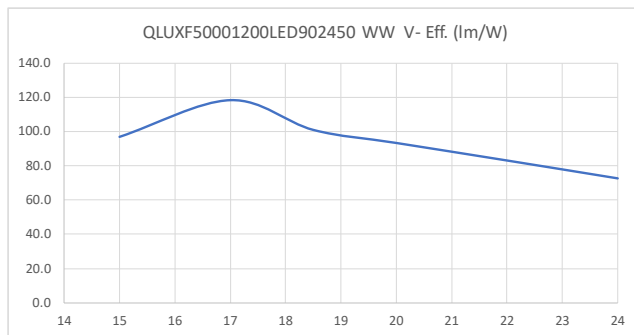
Warm Channel - Voltage vs. Luminous Flux



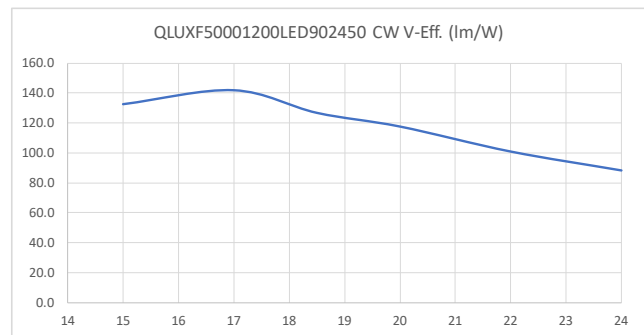
Cool Channel - Voltage vs. Luminous Flux



Warm Channel - Voltage vs. Efficacy



Cool Channel - Voltage vs. Efficacy





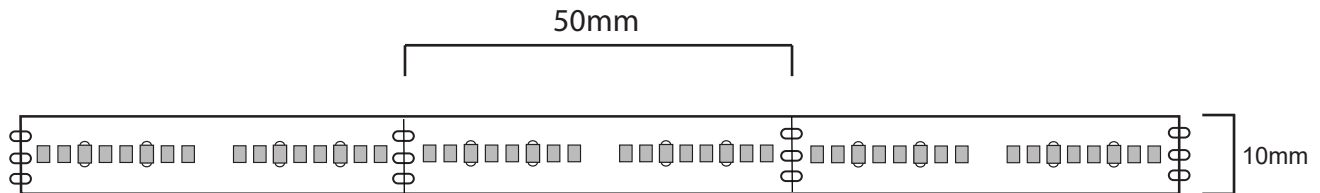
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MECHANICAL SPECS



ELECTRICAL SPECIFICATIONS*

Parameter		Rated Value	Unit
Forward Voltage DC	VF	24V DC	V
Forward Current	IF	396	mA/12"
Power	PD	8.76	W/12"
CRI	Ra	95.2	/
Luminous Flux	Φ	2500	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	≈9.77 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
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 with an aluminum profile for heat dissipation