



**L.T.F.**

## QLUX Flexible LED Tape Series

**QLUXF50001200LEDCOB9  
COB LED Tape**



<b>Available CCT</b>	2700K, 3000K, Custom
<b>CRI, R9</b>	92.4, 61
<b>Lumens per Foot</b>	447.72 lm/ft
<b>LEDs Per Foot</b>	72
<b>Cut Lengths</b>	51mm (~2in)
<b>Watts Per Foot</b>	5.2W/ft
<b>Input Voltage</b>	24V DC
<b>Luminous Efficacy</b>	86.1 lm/W
<b>IP Rating</b>	IP20



**RoHS**



### FEATURES

- COB-like remote phosphor covers LEDs for even light distribution along the length of the tape.
- Superior Color Rendering CRI 92.4
- High efficacy lumen output 86.1 lm/W
- 51mm cut lengths with solder pads
- LM-80 compliant LEDs
- Tight Binning 3 Step Mac Adam Ellipses
- Low heat generation, easy thermal management
- Easy to fit in new design or retrofit applications

### APPLICATIONS

Ideal for new and retrofit architectural designs and lighting fixtures.

#### Indoor Lighting

- Wall Wash Effects
- Ceiling Light
- Fixtures
- Signage

#### Outdoor Lighting

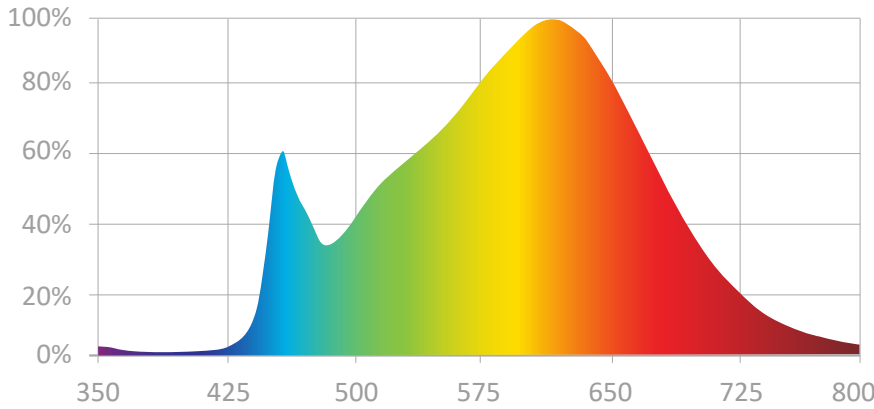
- Street Light
- Marker Light
- Wall Sconces
- Signage Light

### ELECTRICAL SPECIFICATIONS

Model Number	CCT	Input Voltage	lm/m	W/m	lm/W
QLUXF50001200LEDCOB927	2700K	24V DC	1464 lm/m	17 W/m	86.1 lm/W
QLUXF50001200LEDCOB930	3000K				
QLUXF50001200LEDCOB9xx	Custom CCT				

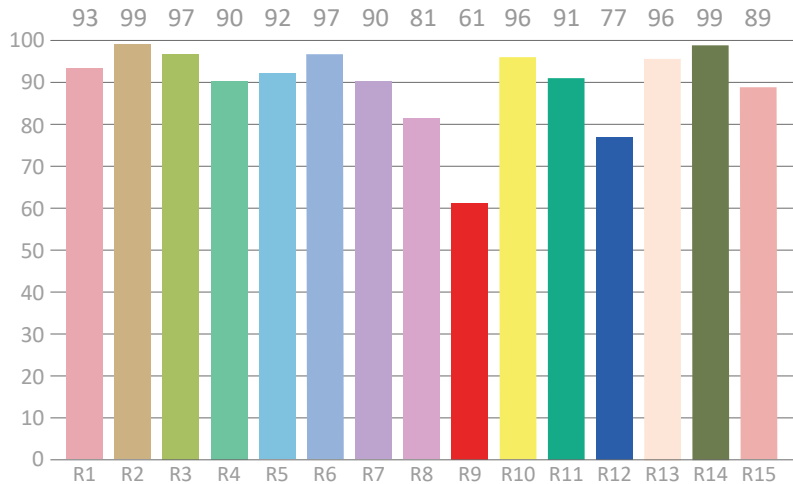


### SPECTRORADIOMETRIC CHARACTERISTICS - 3000K



**Luminous Flux:** 1084.67 lm  
**Radiant Flux:** 3.848 W  
**Efficacy:** 86.1 lm/W  
**Nominal CCT:** LED\_3000K  
 $x_0=0.4338$   $y_0=0.4030$   
**Chromaticity Coordinates:**  
 $x=0.4316$   $y=0.4033$   $u'=0.2475$   $v'=0.5203$   
**Chromaticity Difference:** +0.00046Duv  
**CCT:** 3085 K

### CRI TEST RESULTS - 3000K



**Color Rendering Index (CRI):** Ra=92.4  
**Dominant Wavelength:** 581 nm(E)  
**Peak Wavelength:** 620 nm  
**Colour Fidelity Index:** Rf=86  
**Gamut Index:** Rg=94  
**Color Purity:** 0.5070  
**Color Ratio:** Kr=43.5% Kg=47.9% Kb=8.6%  
**Bandwidth:** 174.2 nm

R1=93	R2=99	R3=97	R4=90	R5=92	R6=97	R7=90	R8=81
R9=61	R10=96	R11=91	R12=77	R13=96	R14=99	R15=89	Re=90

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## ELECTRICAL SPECIFICATIONS

Parameter		Rated Value	Unit
Forward Voltage DC	VF	24V DC	V
Forward Current	IF	216	mA/12"
Power	PD	5.2	W/12"
CRI	Ra	92.4	
Luminous Flux	Φ	447.72	Lm (12")
PCB Width	W	10	mm
Copper Thickness	T	3	OZ
Min. Element Size	L	101	mm
Min. Buckling Radius	R	≥ 50	mm
Angle	2θ½	120	deg
Static Electricity	ESD	800	V
Junction Temperature	Tj	115	°C
IP Grade	IP	IP67	/
LED Color Temperature	CCT	3000K	K
LED Brightness	LM	16 lm/LED	LM

2θ½ is half-value angle

Luminous Flux testing acceptable tolerance ±10%

CRI testing acceptable tolerance: -1

Voltage testing acceptable deviation" ±1V

The CCT of the LED strip will change after the strip is glued

## MECHANICAL SPECIFICATIONS