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SPECIFICATION

MODEL: LED TUBE T10 Standard Type



CUSTOMER :-----

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■ Introduction

LED Tube --Ideal for Fluorescent Replacement ,The high-quality SMD LEDs chip is adopted in Tube products . SMD LED Based Light Source , It provides special and professional SMT technology and testing . LED Tube can help us to keep Environmental green & Friendly, keeping high Energy-Efficient,

In order to provide high-quality lighting, we adopt high-performance CREE or COTCO SMT type LED from USA , which has obtained official patent license in the world, and can offer excellent electronic and optical features.

The LED TUBE can be widely applied as the lighting source to the General lighting , advertisement broads, marks and advertisement lamp boxes. It can also be used as the lighting source for decoration projects or stage lighting. It features high brightness, low power-loss, wide lighting angle, excellent quality and stable performance.

■ Feature

- 1) Longer Life than Fluorescent Tube:min 4 years
- 2) 70%~80% Energy-saving over Fluorescent Tube
- 3) Solid State,High Shock/Vibration Resistant
- 4) Work without ballast
- 5) No RF interference
- 6) Instant Soft-start
- 7) Minimum Maintenance Costs
- 8) Produce Little Heat
- 9) Rated to Operate from -40F to 122F [-40C to 50C],Perfect for

Environments with Extreme Climates

10) Acrylic front cover: never get broken easily

11) Aluminum back cover: better heat dissipation & thus longer lifetime for the LED

12) Use SMD LED with best lumen maintenance

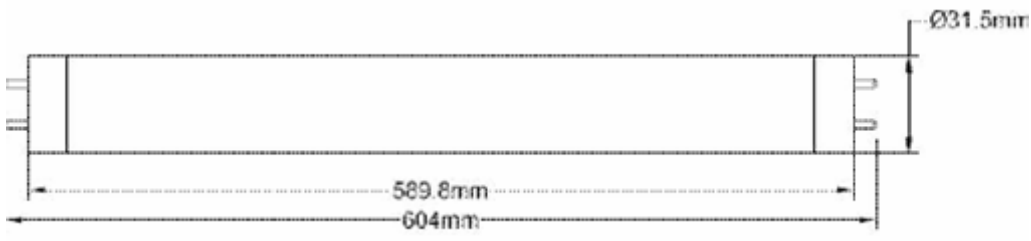
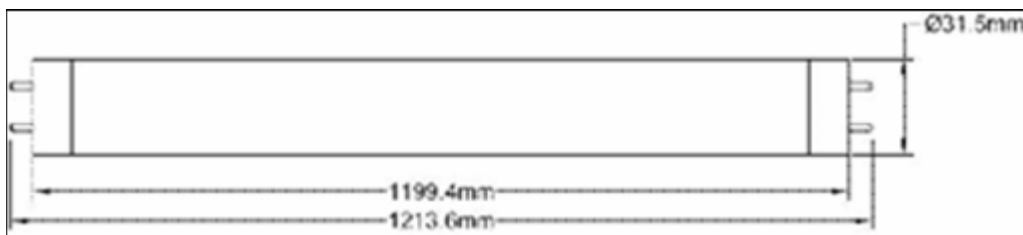
13) Warranty: 3 years

14) No hazardous materials & fully ROHS-compliant

■ Application

Replacement for conventional fluorescent tubes

■ Dimension



■ Basic specification

Part No. / Parameter	T10	
Dimension(mm)	600	1200
Main material	Aluminum	Aluminum
Power consumption(W)	13 ±10 %	26 ±10 %
Input current(mA)	102 ±5 %	190±5 %
Input voltage(V)	AC230	AC230
LED quantity(Pc)	256	512
LED type	SMD3528	SMD3528
Color	white/commercial white/warm white	white/commercial white/warm white
Luminous flux(Lm)	740±10%	1500±10%
Color temperature(K)	5500-6000 (W) 4000- 4500 (MW) 2800-3300 (M)	5500-6000 (W) 4000- 4500 (mw) 2800-3300 (M)
Rendering index	80	81
Socket type	G13	G13
weight (kg)	0.27±0.1	0.54±0.1
Life expectancy(h)	30,000	30,000

■ Installation Instruction

- 1) Working Voltage: 80-120VAC or 165-245VAC
- 2) Working without ballast

■ Product Warranty

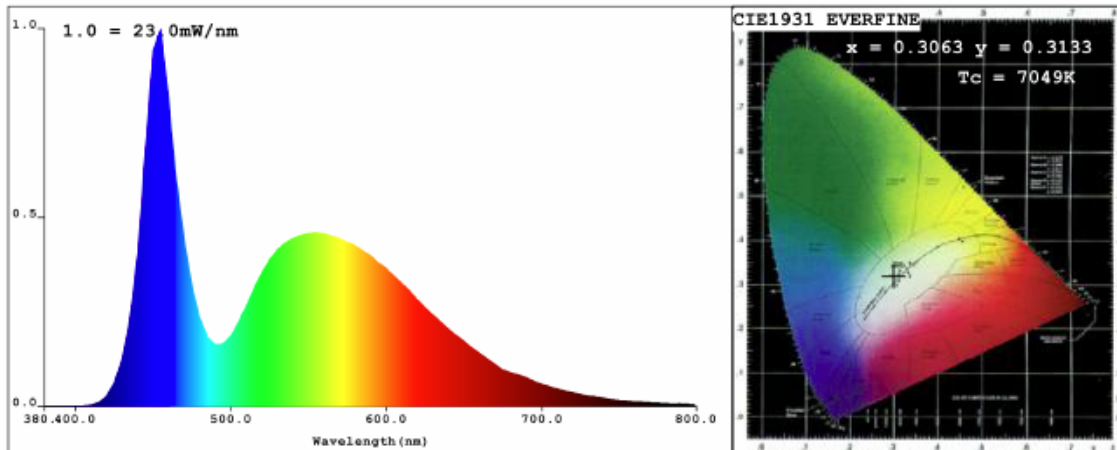
The validity of the product warranty is subject to the correct storage, installation, operation and maintenance of this product. Failing to comply with the storage, installation operation and maintenance routines will make the warranty invalid.

■ Notice

- 1) No pressing or striking
- 2) Transport and handle carefully
- 3) Pay attention to the voltage before using
- 4) Ambient temperature: 0°C -+50°C;
- 5) Indoor use only
- 6) No twisting when power is on

■ Testing report

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate: $x=0.3063$ $y=0.3133$ $u=0.1993$ $v=0.3058$ ($duv=-1.69e-003$)

CCT: $T_c = 7049K$ Prcp WaveL: $\lambda_d=481.4nm$ Purity=10.9%

Peak WaveL: $\lambda_p=455nm$ Half Width: $\Delta\lambda_p=26.5nm$ Ratio: R=13.0% G=81.4% B=5.6%

Average Wave: 541nm

Rendering Index: $R_a=80.2$

R1 =80 R2 =86 R3 =84 R4 =79 R5 =78 R6 =76 R7 =88 R8 =72

R9 =11 R10=60 R11=74 R12=47 R13=82 R14=91 R15=79

Photo Parameters:

Flux: $\Phi=740.74(lm)$ Luminous Efficacy: 55.82(lm/W) Luminous Power: $P=2.142(W)$

Electrical Parameters:

U=234.3V I=0.0970A P=13.40W PF=0.592

Instrument Status:

Scan Range: 380.0nm-800.0nm
REF = 34314

Interval: 5.0nm

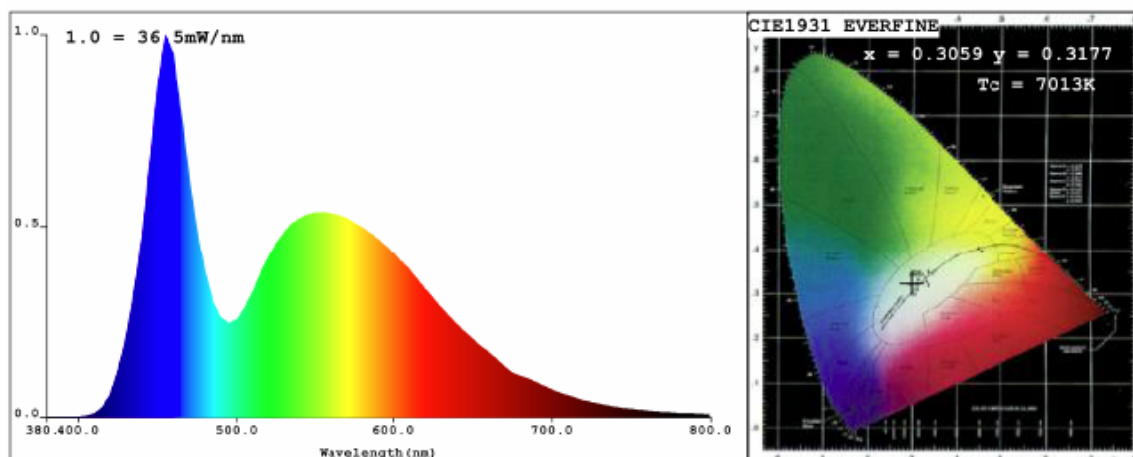
$I_p = 29284(G=4,D=53)$

TMP(PMT) = 28.5degrees centigrade Test Mode: Fast Test

Product Type: T10-60CM-W
Instrument: PMS-50 System
Temperature: 29.7deg
Test Operator: JACK-DO

Manufacturer: QUASAR
Test Department: QUASAR
Humidity: 65.0%
Test Date: 2008-07-15 10:10

Light Source Test Report



CIE Color Parameters:

Chromaticity Coordinate: $x=0.3059$ $y=0.3177/u=0.1974$ $v=0.3074$ ($duv=8.28e-004$)

CCT: $T_c = 7013K$ Prcp WaveL: $\lambda_d=484.0nm$ Purity=10.5%

Peak WaveL: $\lambda_p=455nm$ Half Width: $\Delta\lambda_p=33.7nm$ Ratio: R=12.9% G=80.9% B=6.2%

Average Wave: 539nm

Rendering Index: $R_a=81.7$

R1 =80 R2 =88 R3 =89 R4 =78 R5 =79 R6 =80 R7 =88 R8 =71

R9 =11 R10=68 R11=73 R12=54 R13=83 R14=94 R15=78

Photo Parameters:

Flux: $\Phi=1486.8(lm)$ Luminous Efficacy: 55.37(lm/W) Luminous Power: $P=4.064(W)$

Electrical Parameters:

$U=233.6V$ $I=0.1870A$ $P=26.60W$ $PF=0.607$

Instrument Status:

Scan Range: 380.0nm-800.0nm
REF = 6600

Interval: 5.0nm

$I_p = 49520(G=4, D=52)$

TMP(PMT) = 28.4degrees centigrade Test Mode: Fast Test

Product Type: T10-120CM-W
Instrument: PMS-50 System
Temperature: 29.6deg
Test Operator: JACK-DO

Manufacturer: QUASAR
Test Department: QUASAR
Humidity: 65.0%
Test Date: 2008-07-15 10:23