

Specification

T8 LEDs Tube

Series	T8 Tube	

Version 1.2

Date <u>2011/12/29</u>



Introduction

QT-Brightek ™ T8 LED Tube Light is enclosing LEDs into the plastic tube housing to emit light like the conventional T series fluorescent light. It is general illumination for using in RVs, Buses, Trains, Task Lighting, Store Displays, Warehouse Illumination and Under Cabinets.



Features

Housing Material : Plastic casing and aluminum

• Base Type : G13

• Input Power : 9Watts (for 2ft) and 18Watts (for 4ft)

Input Voltage : 90-265VAC

Beam Spread : 180°

Length : 48" (1198+/- 3mm) and 24" (598+/-3mm)

• Diameter : 1-1/8" (28.8 +/- 0.2mm)

Luminous Flux : 650 lm until 1,320 lm (based on ordering options)

• Light Colors Available: (3000K) Warm White/ (4200K) Natural White/ (6000K) Cool White

Bulb Life : 50,000 hours



Specification

	Frosted Lens												
Part Number	TUET806009WH00	TUET806009NH00	TUET806009CH00	TUET812018WH00	TUET812018NH00	TUET812018CH00							
Options	21	ft (600mm) Frosted Lens	S	4	ft (1200mm) Frosted Ler	ıs							
Input Voltage		AC 90 ~ 265 V			AC 90 ~ 265 V								
Power Factor		>0.9			>0.9								
Total Power		9W			18W								
Quantity of Leds		120Pcs LEDs			240Pcs LEDs								
CCT (Typ.)	3000K	4200K	6000K	3000K	4200K	6000K							
Total Flux	550 Lm	620 Lm	650 Lm	1100 Lm	1250 Lm	1300 Lm							
CRI	65 Ra	70 Ra	75 Ra	65 Ra 70 Ra 75 Ra									
Life		40,000hr		40,000hr									
View Angle		180°		180°									
Length		590mm		1198mm									
Diameter		Ф26		Ф26									
Connector Type		G13		G13									
Construction	Frost	Lens + AL Housing + I	FR4	Frost Lens + AL Housing + FR4									
Case Temperature	52°C (2	25°C - Ambient Tempera	ature)	52°C (25°C - Ambient Temperature)									

	Clear Lens											
Part Number	TUET806009WH02	TUET806009NH02	TUET806009CH02	TUET812018WH02 TUET812018NH02 TUET812018CH								
Options		0.6 m Clear Lens			1.2m Clear Lens							
Input Voltage		AC 90 ~ 265 V			AC 90 ~ 265 V							
Power Factor		>0.9			>0.9							
Total Power		9W			18W							
Quantity of Leds		120 Pcs LEDs			240 Pcs LEDs							
CCT (Typ)	3000K 4200K		6000K	3000K	4200K	6000K						
Total Flux (Typ)	600 Lm	720 Lm	760 Lm	1220 Lm	1350 Lm	1400 Lm						
CRI	65 Ra	70 Ra	75 Ra	65 Ra 70 Ra 75 Ra								
Life		50,000hr		50,000hr								
View Angle		180°		180°								
Length		590mm		1198mm								
Diameter		Ф26		Ф26								
Connector Type		G13		G13								
Construction	Fros	t Lens + AL Housing + 1	FR4	Frost Lens + AL Housing + FR4								
Case Temperature	52°C(25°C Ambient Tempera	ture)	52°C (25°C Ambient Temperature)								

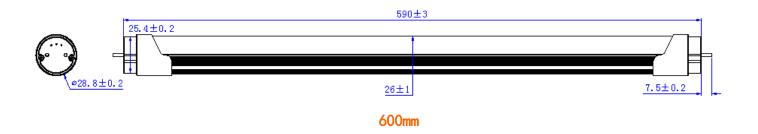


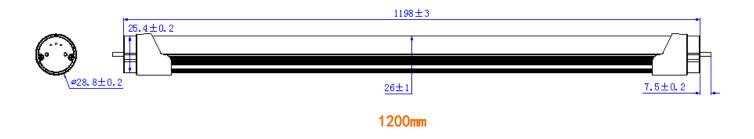
Maximum Rating

Maximum Rating for T8 based on Ta =25°C

Parameter	Symbol	Min.	Тур.	Max.	Units
Operating voltage (AC 50/60Hz)	V	90	110/220	265	V
Operating temperature	Topr	-20		+55	°C
Rated Life		50000			Н

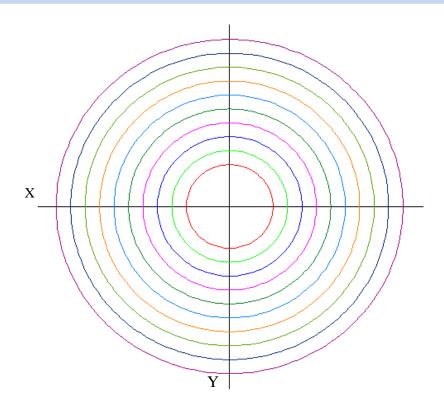
Dimension







Light Distribution (Distance from Source=1.2m)



	Frosted Lens 9W													
ССТ	Center	300mm	400mm	500mm	600mm	700mm	800mm	900mm	■1000mm	■1100mm	■1200mm			
6000K	44.0	43.2	43.0	42.9	42.1	42.0	41.0	40.8	40.0	39.7	39.7			
4200K	48.0	47.2	47.0	46.3	45.8	44.7	44.5	43.3	42.9	42.0	42.0			
3000K	52.8	52.2	52.0	51.4	50.3	50.0	49.0	48.5	47.3	46.7	45.9			

Units: LUX

	Frosted Lens 18W													
CCT	Center	300mm	400mm	500mm	600mm	700mm	800mm	900mm	■1000mm	■1100mm	■1200mm			
6000K	80.4	80.0	79.9	79.4	78.8	77.7	76.7	75.2	74.1	73.0	69.6			
4200K	85.0	83.4	82.7	81.8	80.5	79.5	77.8	76.2	73.7	73.5	72.8			
3000K	92.7	91.6	90.6	89.7	88.3	87.0	85.5	84.0	82.2	80.6	79.7			

Units: LUX



	Clear Lens 9W													
ССТ	Center	300mm	400mm	500mm	600mm	700mm	800mm	900mm	■1000mm	■1100mm	■1200mm			
6000K	49.8	48.6	48.4	47.7	47.5	47.1	46.6	45.7	45.4	44.9	44.3			
4200K	53.5	52.7	52.0	51.3	50.6	49.8	49.4	48.3	47.9	47.6	47.2			
3000K	57.8	57.3	57.0	56.6	55.4	55.1	54.5	53.7	53.4	51.7	50.8			

Units: LUX

	Clear Lens 18W													
CCT	Center	300mm	400mm	500mm	600mm	700mm	800mm	900mm	■1000mm	■1100mm	■1200mm			
6000K	85.8	85.2	84.8	84.3	83.6	82.8	81.5	80.4	79.6	78.0	74.3			
4200K	90.2	88.6	87.8	86.6	85.4	84.5	82.2	81.3	78.7	78.3	77.1			
3000K	97.7	96.5	95.9	94.6	93.8	93.2	90.6	89.4	87.9	87.2	84.3			

Units: LUX



Installation Instruction

HOW TO INSTALL QT-Brightek LED T8 RETROFIT TUBES

STEP 1: Unpack the Product:

- a) Unpack and carefully examine the product from top to bottom.
- b) Report any damage and save all packing materials, if any part was damaged during transport.
- c) Do not attempt to use this product, if it is damaged.

STEP 2: Planning the Installation:

a) This device installation requires planning to ensure successful installation with minimal complications and down time.

STEP 3: User Responsibilities:

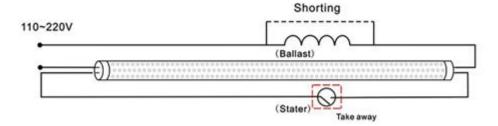
It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate the device in such a manner as to comply with all state and local laws, ordinances, and regulations.

STEP 4: T8 Installation Procedure:

- 1) Disconnect power to fixture at source. **DO NOT SIMPLY SWITCH OFF FIXTURE.**
- 2) Remove existing fluorescent tubes and safely set aside.
- 3) Disconnect (cut) wires to ballast leaving enough wire to be tied off with wire nuts.
- 4) Tie-off remaining wires attached to ballast with wire nuts.
- 5) See wiring diagram as below for installation QT-Brightek T8 leds Tube and re-wire fixture.



Schematic Diagram before Modification



Schematic Diagram after removing the Ballast



- 6) Install QT-Brightek T8 leds Tube into fixture.
- 7) Affix included warning labels to fixtures near lamp connection/sockets of fixture so they are visible to bulb installers.
- 8) Re-connect power supply and turn on switch. Tube will light.

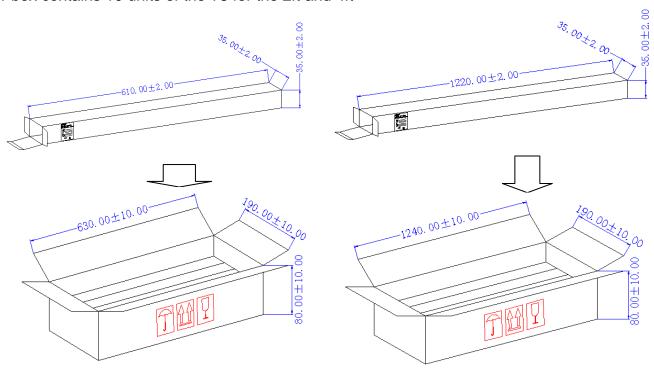
Risk of fire or electric shock.

Install the QT-Brightek T8 retrofit LED tube(s) only in luminaires that have the construction features and dimensions shown in the drawings shown on this sheet.



Packaging Specification

In 1 box contains 10 units of the T8 for the 2ft and 4ft



Dimension: Units (mm)

Net Weight: 235g X 10 PCS (600MM)

425g X 10 PCS (1200MM)

Total Weight including the packing box: 3300g (600mm); 5500g (1200mm)