



LED Tube

(Fluorescent Tube Replacement)

Product Description

The fluorescent tube is no stranger when it comes to industrial, commercial and residential lighting applications. However, with greater awareness on the need to protect our environment, there are rising concerns on the mercury content found within fluorescent technology lighting products. LED technology is able to address this as it does not contain toxic substances. Transforming LED technology into a lighting application that can efficiently and effectively fit into the fluorescent tube form factor is a technical challenge that our engineers have successfully tackled. The result is a truly drop-in replacement that fits into existing fluorescent tube fittings. Our Q-RAY™ LED Tube looks just like the fluorescent tube, and it provides up to 50% energy savings and is easy to use.



Application

LED-based T8 tubes serve as direct replacements of conventional fluorescent tubes. This range replaces the typical 36W(4ft), 18W(2ft) fluorescent tubes.

Design Concept

Our LED-based T8 design concept move along the approach of direct retrofitting - i.e. unplug the old, plug in the new, while maintaining all improving light distribution and color consistency.

Application Requirements

This is a drop-in replacement, powered by standard 110VAC - 240VAC connection, simple & easy to handle. It only consume 50% or less of the energy use by conventional fluorescent while maintaining the illumination level.

The Hazards of Mercury

The possibility of airborne mercury into small, little droplets and breathed into the lungs can be deadly. This can often occur by mistake when people try to vacuum up mercury that has spilled onto the ground or even when it flows into water stream. Depending on how much mercury is inhaled, permanent lung damage and death may occur. One may also have some long-term brain damage from inhaled elemental mercury.

Body & Material Construction

Its body is constructed via a combination of polymer and alloy material. With its unique design philosophy, thermal management is well taken care of to provide you longer lasting illumination.

Optical Properties

The optical system adopted here provides a wide illumination angle. Of course, we have also re-engineered the product so it is more efficient than any other LED tube in the market.

That's why we say: "Not all LED bulbs are created equal".

Technical Specifications

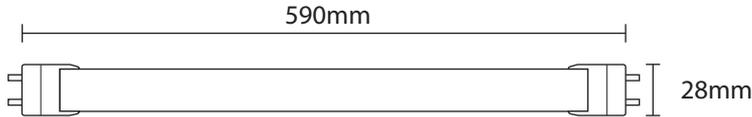
LED Tube	4 feet	2 feet
Total Flux Produced	1600 lumens	800 lumens
Typical Power	19W	9W
Power Factor	> 0.9	
CCT Level	Cool White (6500K Nominal)	
System Efficacy (Typical)	84 lm/W	89 lm/W
Color Rendering Index , CRI	>75	
Illumination Angle	120°	
Dimension (mm)	L1200 X ø28	L590 X ø28
Optical Property	Frosted	
Packing Type	Sleeve, Closed End	
Cap-Base	G13	
Bulb Type	T8	
Net Weight per piece	378g +/- 5%	300g +/- 5%
Packing Configuration	4 tubes per level, 4 levels	8 tubes per level, 4 levels
Carton Box Dimension (mm)	14H x 18W x 118L (9kg)	
Operating Temperature	-20° to +45°	

Q-RAY™ LED Tube Mechanical Dimension

4ft T8 LED Linear Tube



2ft T8 LED Linear Tube



Ordering Information

Model Part Number - 4ft

QT812-RWA-Cool

Model Part Number - 2ft

QT806-RWA-Cool

Manufacturing Part Number - 4ft

QT812-RWA-65G13B Q-RAY™ LED Tube, Cool White, G13, 84 lm/W

Manufacturing Part Number - 2ft

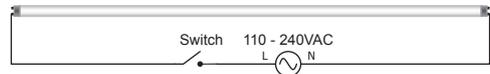
QT806-RWA-65G13B Q-RAY™ LED Tube, Cool White, G13, 89 lm/W

* 4ft & 2ft Warm White Tube also available upon request.

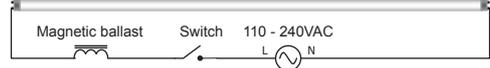
Note: While every effort has been made to ensure that the information contained herein is correct at the time of publication, specifications may change without prior notice.

Wiring Diagram

AC Source Direct (recommended for new installation)



With Magnetic Ballast & Remove Starter (direct replacement)



* Note: We recommend new installation method to save more energy. As Ballast may consume some energy which is not required using Q-RAY™ LED Tube. MANUFACTURER DOES NOT guarantee all types of ballast will work with Q-RAY™ LED tube.