



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 raising concerns on the mercury content found within fluorescent technology lighting applications. 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 LED Tube fitting. Our Q-RAY™ LED Tube looks just like the fluorescent tube, but gives up to 50% energy savings and is easy to use.

Application

As T8 lamp is widely adopted, LED-based T8 tube should serve as a direct replacement to save unnecessary spending on changing the system. This product replaces a typical 36W(4ft), 18W(2ft) fluorescent tube which its system consumption normally exceeds 40W(4ft), 20W(2ft). It saves the planet by reducing carbon emission.

Design Concept

The design of LED Tube took into consideration of all the technical challenges, light distribution and color consistency. Our LED-based T8 design concept move along this line and crafted a replacement that is so much easier - i.e. unplug the old, plug in the new.

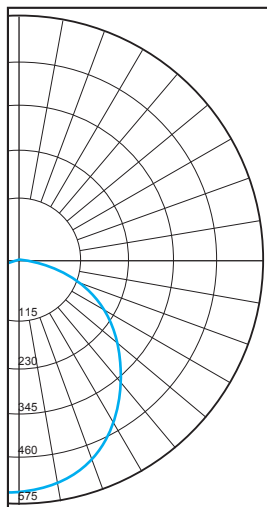
Up to
50%
Energy Saving
Long lasting, No mercury, No UV.
Environmental Friendly

Q-RAY™ LED Tube Photometric Data

Digital Lighting Inc. – 1.2m T8 LED Linear Tube with Frosted Cover (QT812-RWW-65G13A) without Reflecting Fixtures
Luminaire Lumen Output – 1637 lm
Lamp Operating at 230Vac and 20.1W
CCT – 6500K Nominal

Intensity (Candlepower) Summary

Angle	Mean CP	Lumens
0	550	
5	547	12.5
10	538	50.7
15	523	113.5
20	503	198.1
25	479	302.5
30	449	422.5
35	417	543.3
40	381	694.5
45	344	839.2
50	306	983.7
55	266	1125
60	226	1258
65	185	1367
70	145	1450
75	106	1516
80	71	1569
85	45	1609
90	37	1637



*Simulated chart.

Zonal Lumens & Percentages

Zone	Lumens	%Lamp	%Luminaire
0-30	422.5	25.8	26
0-40	694.5	42.4	42.5
0-60	1258	76.9	77
0-90	1637	100	100

** Efficacy: 81.4 Lumens/watt **

*Note: This test is a reference conducted with one model of reflecting fixtures only. Other housing may behave differently.

The Effect 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. You may also have some long-term brain damage from inhaled elemental mercury.

The Significance of Q-RAY™ LED Tube

Q-RAY™ LED Tube uses LED as light source. It generates no UV or IR. Therefore it won't harm any object under its illumination. It has no side effect and is perfectly green to the environment, a **GREEN TECHNOLOGY** made for the future generations.

Application Requirements

This is a drop-in replacement, powered by standard 110VAC or 230VAC (4ft), 90VAC or 265VAC(2ft) connection, simple & easy to handle. By the way, have we mentioned that it only consume 50% of the energy use by Fluorescent?

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 said: "Not all LED bulbs are created equal".

Total Flux Produced	1600 lumens	800 lumens
Typical Power	20W	10W
Power Factor	> 0.92	> 0.85
CCT Level	Cool Daylight (6500K Nominal)	
System Efficacy (Typical)	80 lpw	
Color Rendering Index , CRI	70	
Illumination Angle	117° (H)/ 110° (V)	120° (H)/ 110° (V)
Dimension	L1229 X ø25.9mm	L600 X ø25mm
Optical Property	Frosted	
Packing Type	Sleeve, Closed End	
Piece per Pack	1	
Packing Configuration	4 tubes per level, 3 levels	
Barcode (EAN-13)	9555521007034	9555521007072
Net Weight per piece	378g +/- 5%	300g +/- 5%
Cap-Base	G13	
Bulb Type	T8	

Ordering Information

Part Number - 4ft

QT812-RWA-65G13A Q-RAY™ LED Tube, Cool Daylight, GUI3, 80lpw

Ordering Information

Part Number - 2ft

QT806-RWA-65G13A Q-RAY™ LED Tube, Cool Daylight, GUI3, 80lpw
Q-RAY™ LED Tube, Cool Daylight, GUI3, 75lpw

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.