Fidelux

FTG8 - Fidelux Glass UL Types A or B Dual Mode T8 Smart Tube Series

Product Description

The Fidelux FTG8 LED Glass Tube is a smart replacement for your typical T8 Fluorescent Tube. The FTG8 is a classic one for one UL Type A (Plug & Play) Ballast Compatible or UL Type B (Retrofit) Line Voltage, direct wire and dual mode product. Fidelux gives you many kelvin options also, including 3000K, 4000K and 5000K. If you are looking for a replacement for your fluorescent tubes, then Fidelux has the answer.

Features & Benefits

- Compatible with 90% instant start electronic ballasts in US market
- Tube can work both with instant electronic ballasts or without, so it`s a fantastic direct replacement tube as well as retrofit kit
- One for one replacement
- Frosted Lens with Shatter Proof Coating, Clear Lens is available by request
- Suitable for dry & damp locations
- No UV emissions meeting Dark Sky Compliance
- Reduces energy consumption

Applications

- Retrofit Schools, Offices, Corporates, Warehouses & Retail

UL Type A or B Dual Mode

- Type A - Simple one to one swap of the original linear florescent lamp. This lamp works directly with the existing florescent ballast. No Rewiring or Ballast change. Confirm Ballast Compatibility on Page #5

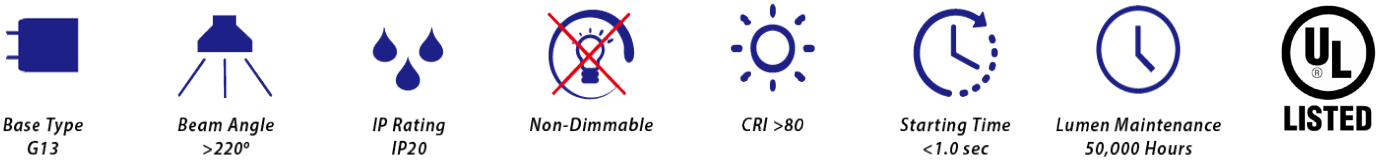
- Type B - Bypass the Ballast also known as Line Voltage, Direct wire or Retrofit works straight off the line voltage flowing directly to the sockets. Requiring you remove the original florescent ballast. Please confirm direct wire installation for Shunted & Non-Shunted sockets

Performance Summary

Base: G13 - Type A or B Dual Mode
Efficacy: up to 150 l/pw
CRI: 80 cri
CCT: 3000K / 3500K / 4000K / 5000K
Dimming: Non Dim
Operating Temp: -20° ~ +45°C (-4°F ~ +113°F)
Input Voltage: 120-277 vac
Power Factor: >0.9
Beam Angle: 220°
Starting Time: <1.0 s
IP Rating: IP20

Approval Listings

- UL



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Project Name:
Type:
Date:

FTG8 Series Specification Summary

DATA SOURCE					
Product Number	**FTG82-12W**	**FTG84-12W**	**FTG84-12W-HE**	**FTG84-15W**	**FTG84-18W**
Nominal Efficacy l/pw	117	129	150	125	118
Input Power: Watts Nominal	12.10	13	13	17.58	20.42
Lumens @ 3000K	1418	1635	1882	2112	2360
Lumens @ 3500K	1431	1650	1900	2131	2372
Lumens @ 4000K	1443	1650	1900	2149	2383
Lumens @ 5000K	1456	1680	1950	2186	2407
UL Type	A or B				
Qualifications	UL	UL	UL	UL	UL
Dimming	Non Dim				
Input Voltage Options	100-277vac				
CRI	80	80	80	80	80
Beam Degree	220°				
THD @ 120V	9.29%	15%	8.98%	7.58%	6.94%
IP Rating	IP 20				
Power Factor	>0.9				
Ambient Working Temp	-20°C ~ +45°C / (-4°F ~ +113°F)				
L70 Lifetime Hrs (TM21)	55,000+ Hrs				
Max Dimensions (in)	25" x 6.89" x 8.27"	49" x 6.89" x 8.27"			
Total Weight	0.24 lbs per piece	0.44 lbs per piece			
Limited Warranty	5 yrs.				

Notes
Values are nominal unless noted +/- 5%
Specifications change without notice

FTG8 Series Product Ordering Guide

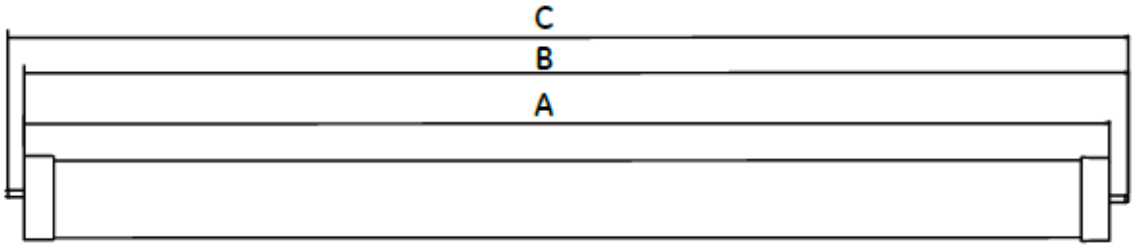
Example: FTG82-12W-M-AB-50

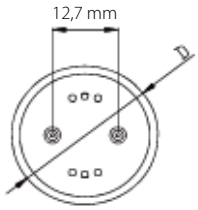
Product	CCT / Color Temp	Voltage
FTG82-12W-AB	**30K** (3000K)	**Blank** (120-277vac) STD
FTG84-12W-AB	**35K** (3500K)	
FTG84-12W-HE-AB	**40K** (4000K)	
FTG84-15W-AB	**50K** (5000K)	
FTG84-18W-AB		

M = Milky Diffuser

FTG8 Series Design Details & Photometry

FTG8 Series Design & Dimensions

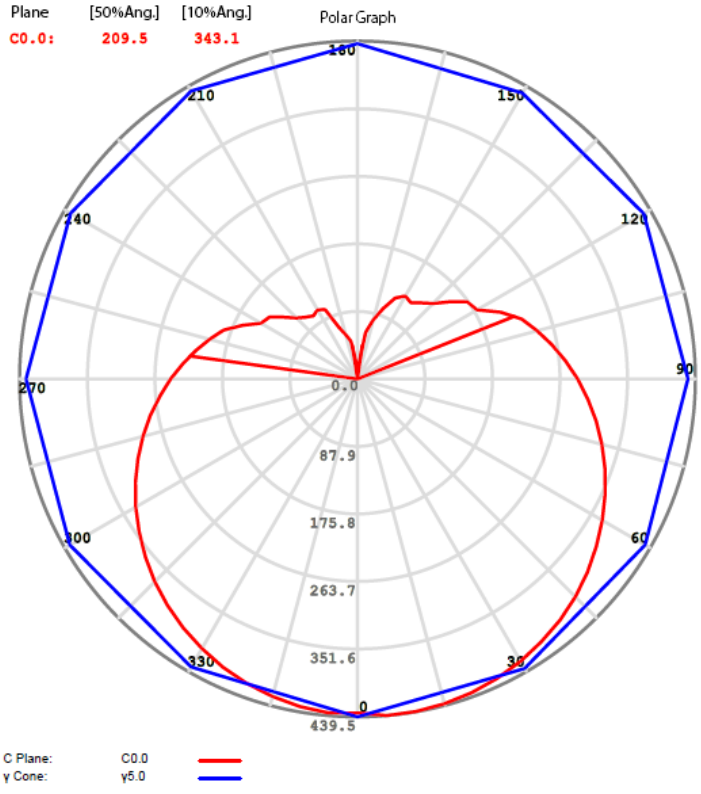


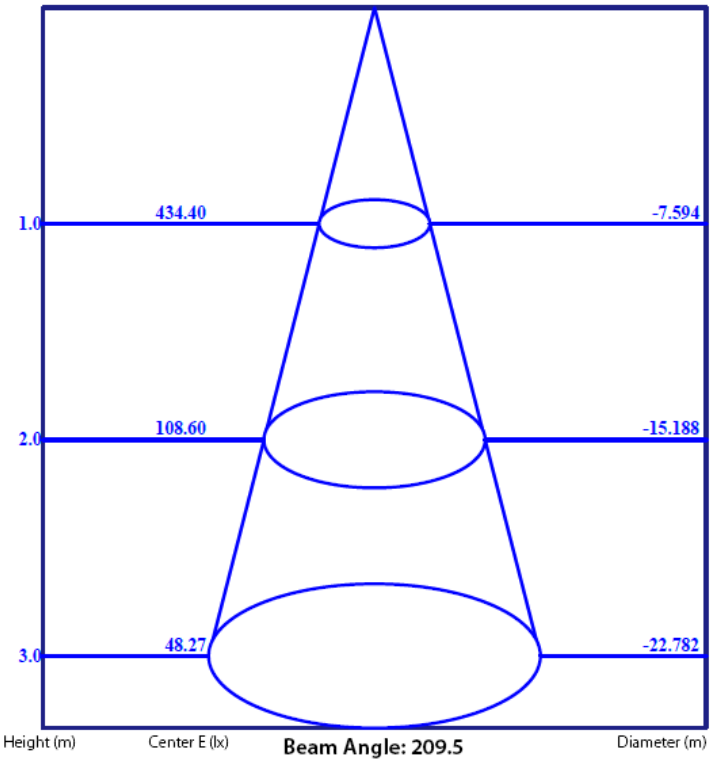


Size (FT)	FTG82			FTG84			Description
Length (IN)	Typical	Min	Max	Typical	Min	Max	
A	23.15	-	23.22	47.17	-	47.22	Base to base face
B	23.44	23.40	23.50	47.46	47.40	47.50	Base face to end opposite base pin
C	23.74	23.67	23.78	47.76	47.67	47.78	End of base pin to end of opposite pin end

FTG8 Series Photometry

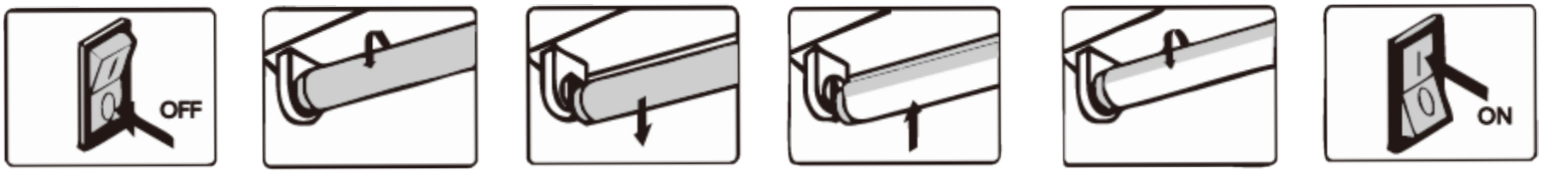
FTG84-18W-5000K





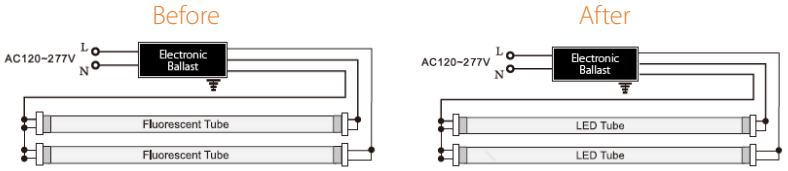
FTG8 Series Installation Instructions

For all FTG8 Series Mounting



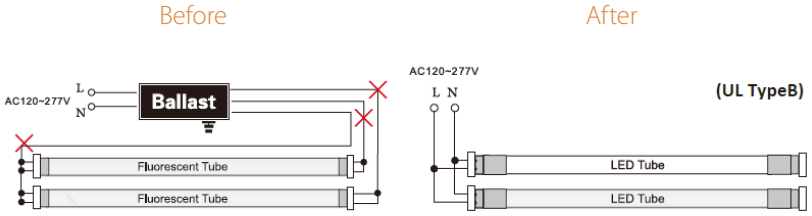
UL Type A (Plug and Play Procedure)

1) Turn off the power.
2) Remove diffuser (if provided).
3) Remove the flourescent tubes. Please dispose of these items properly as they contain mercury.
4) Put LED tube into the lighting fixture.
5) Install the LED tubes, then close the diffuser (if provided).
6) Turn on the power.



UL Type B (Retrofit Procedure)

1) Turn off the power.
2) Remove diffuser (if provided).
3) Remove the flourescent tubes. Please dispose of these items properly as they contain mercury.
4) Cut the wires as shown on diagram.
5) Make the new wire connect to branch circuit as shown.
6) Replace the cover over the wiring chanel.
7) Install the led tubes, close the diffuser.
8) Turn on the power.



WARNING
RISK OF ELECTRICAL SHOCK

To avoid the risk of fire or electric shock this product should be installed, inspected, and maintained by a qualified electrician only. Installation should be completed by an individual familiar with the construction and operation of the luminaire. Installation of luminaire must be in accordance with national and local building and electrical codes.

Safety Warning: **To avoid electric shock:** Be certain electrical power is OFF before and during installation and maintenance. Luminaire must be supplied by a wiring system with an equipment grounding conductor.

To avoid burning hands: Make sure lens and housing are cool when performing maintenance.

To avoid product degradation: Make sure the wire supply voltage is the same as the luminaire supply. Use proper supply wiring as specified on the luminaire nameplate. Avoid use in environments containing sulfur, chlorine, or other halides, methyl acetate or ethyl acetate, cyanoacrylates, glycol ether, formaldehyde, or butadiene.

Notes: Instructions do not cover all details and all possible product configurations. Do not restrict luminaire ventilation. Ensure LED luminaire is not covered with material that will prevent convention or conduction cooling. Ensure LED luminaire has the correct polarity before installation. Avoid exposing wiring to metal edges and sharp objects.

Maintenance: Perform visual, electrical, and mechanical inspections on a regular basis. The environment and frequence of use should determine this. However it is recommended that checks be made at least once a year. Electrically check to make sure that all connections are clean and tight. Mechanically check that all parts are properly assembled.

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FTG8 Compatible Ballast List

For all FTG8 Series Tubes

1) Our tubes can be compatible with the ballasts listed below. If you intend to install ballast compatible tube with ballasts that is not in the list below, risk of damage and losses may occur. We disclaim liability for any damage or losses by not following the instructions in this document.
2) We are testing more and more ballasts and will update this list all the time. If you can`t see your ballast on the list below, please contact us.

	ACCUPRO
1	AP-432IP-UNV
2	AP-332IP-UNV-M
	ADVANCE
1	IOPA-4P32-LW-N
	ESPEN
1	VE232MVHIPLE
2	VE232MVHIPE
3	VE432MVHIPE
4	VE432MVHIPLE
5	VE432120HIP
	GE
1	GE232MAX-L/Ultra
2	GE332MAX-N/Ultra
3	GE232MAX347-N
4	GE432MAX347-N
5	GE232-MVPS-N
6	GE332-MVPS-N
7	GE432-MVPS-N
8	GE432-120RESDIYB
9	GE-240-RS-MV-N
10	GE232-N-347
11	GE132MAX-H/ULTRA
	Halco
1	EP232IS/L/MV/HE
	HOWARD INDUSTRIES
1	EP3/32IS/MV/MC/HE
	KEYSTONE
1	KTEB-232RIS-1-TP-SL
2	KTEB-232RIS-1-TP-SL/Ga
	OSRAM
1	QHE 2x32T8/UNV ISN-SC
2	QHE 3x32T8/UNV ISN-SC
3	QHE 3x32T8/UNV PSN-SC

	PHILIPS
1	ICN-2P32-N
2	ICN-3P32-N
3	ICN-2S40-N
4	IOP-4P32-LW-N
5	IOPA-1P32-N
6	IOPA-4P32-N
7	IOPA-2P32-LW-N
8	IOP-3P32-N
	SYLVANIA
1	QHE 1x32T8/UNV ISN-SC
2	QHE 3x32T8/UNV ISL-SC
3	QTP 2x32T8/UNV ISL-SC
4	QT 4X32/120 LP
5	QT 2x32 T8/347 ISL-SC
6	QHE 4x32T8/347 ISN-SC
7	QHE 4x32T8/347 ISL-SC
	TRIAD
1	B232IUNVHP-N
2	B332IUNVHP-A
3	B432IUNVHP-A
4	B232IUNVHP-B
	UNIVERSAL
1	B332IUNVHE-A
2	B432IUNVHE-A
3	B232IUNVEL-N
4	B332IUNVEL-A
5	B232IUNVHEH-A
6	B332PUNVHE-A
7	B4321UNVEL-A
	WORK HORSE
1	WH3-120-C
2	WH3-120-L
	Pacific Fluorescent
1	EB-232IS-120-RES