

File E361654
Project 4788830903

December 23, 2019

REPORT

On

LIGHT-EMITTING-DIODE RETROFIT LUMINAIRE CONVERSION KITS

Under the

CLASSIFICATION PROGRAM

XIAMEN PVTECH CORPORATION LTD
XIAMEN 361022 CHINA

Copyright © 2019 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion, provided it is reproduced in its entirety.

DESCRIPTION

PRODUCT COVERED:

USC, CNC - LED Tube Lamp Retrofit Kit, Models PVT5-4FT->WB@*Z&-**K, PV-4FT-%WB1*#Z&-**K, PV-8FT-<WB*XYZ&-**K, PV-8FT-=WB*XYZ&-**K, PV-8FT->WB*XYZ&-**K, PVT5-4FT->WAB@Z&-**K, PVT5-4FT->WAB@GZ&-**K, PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K, PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K, PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K, PVT5-4FT-xWAB@Z&-**K and PVT5-4FT-xWAB@GZ&-**K.

*Notes: For model PVT5-4FT->WB@*Z&-**K: ">" can be any number from 21.5 to 28 to represent market purpose; "@" can be null or "1" to represents market purpose; "*" can be Null or G to represent different type of enclosure, null represents glass with PET film enclosure, "G" represents glass enclosure; "&" can be "C" or blank to represent the color of diffuser, "C" represents clear diffuser, blank represent the milky diffuser; "Z" can be blank or a letter to represent the manufacturer of LEDs; "**K" can be any characters for CCT, for example 40K represents 4000K.

For model PV-4FT-%WB1*#Z&-**K: "%" can be any number from 8.5 to 11.6 to represent market purpose; "*" can be Null, G or P, to represent different type of enclosure, null represents glass with PET film enclosure, "G" represents glass enclosure, "P" represent plastic enclosure; "#" can be S, D or B, to represent different method of connection. "S" represents single-ended power input, "D" represents double-ended and one pin connects with driver power input, "B" represent double-ended and two pin connects with driver power input; "&" can be "C" or blank to represent the color of diffuser, "C" represent clear diffuser, blank represent the milky diffuser, "Z" can be blank or a letter to represent the manufacturer of LEDs; B1 represent the LED driver, include LED driver A and LED driver B (Flicker free); "**K" can be any characters for CCT, for example 40K represents 4000K.

For models PV-8FT-<WB*XYZ&-**K, PV-8FT-=WB*XYZ&-**K, PV-8FT->WB*XYZ&-**K: "<" can be any number from 20 to 28, "=" can be any number from 32 to 40, ">" can be any number from 40 to 46, all these numbers are for market purpose; "*" can be Null, G to represent different type of enclosure, "*" can be Null, G to represent different type of enclosure, null represents glass with PET film enclosure, "G" represents glass enclosure; "X" can be "O" or "S", where "O" represent integrate enclosure, "S" means butted enclosure; "Y" can be R, F or blank to represent different adapter, R represent R17d, F represent Fa8, blank represent customer themselves can choose R17d or Fa8 adapter from accessories; "&" can be "C", "S", "SC" or blank to represent the color of diffuser, "C" represents clear diffuser, blank represent the milky diffuser, "SC" represents clear diffuser and end cap with CCT selectable switch or Wattage selectable switch or CCT selectable switch and Wattage selectable switch, "S" represent the milky diffuser and end cap with CCT selectable switch or Wattage selectable switch or CCT selectable switch and Wattage selectable switch; "Z" can be blank or a letter to represent the manufacturer of LEDs; "**K" can be any characters for CCT or CCT selectable, for example 40K represents 4000K, 16K represents between 3000K and 6500K, 5 kinds of CCT selectable.

*For models PVT5-4FT->WAB@Z&-**K, PVT5-4FT->WAB@GZ&-**K:

">" can be any number from 21.5 to 28, which represents market purpose; "Z" can be "C" or blank to represent the color of diffuser, "C" represents clear diffuser, blank represent the milky diffuser; "&" can be blank or a letter to represent the manufacturer of LEDs; "**K" can be any characters for CCT, for example 40K represents 4000K; "AB" represent the LED driver, include "LED driver A" or "LED driver B". "@ can be null or '1', which represents market purpose.

*For models PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K, PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K, PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K: "<" can be any number from 20 to 28, "=" can be any number from 32 to 40, ">" can be any number from 40 to 46, all these numbers are for market purpose; "AB" and "ABG" represents glass enclosure, "X" can be "O" or "S", where "O" represent integrate enclosure, "S" means butted enclosure; "Y" can be R, F or blank to represent different adapter; R represent R17D, F represent Fa8, blank represent customer themselves can choose R17d or Fa8 adapter from accessories; Where "&" can be "C" or blank to represent the color of diffuser, "C" represents clear diffuser, blank represent the milky diffuser; "Z" can be blank or a letter to represent the manufacturer of LEDs; "**K" can be any characters for CCT, for example 40K=4000K.

Note: USC - United States Standards Classified
CNC - Canadian Standard, Classification

ELECTRICAL RATINGS:

Retrofit Kit Model No.	Input Voltage, Vac	Input Frequency, Hz	Input Current, A	Input Wattage, W	Tube Length, mm
PVT5-4FT->WB@Z&-**K PVT5-4FT->WB@GZ&-**K	120-277	50/60	0.25	21.5-28	1149
PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K	120-277	50/60	0.125	9.5-18	1149
PV-4FT-%WB1#Z&-**K PV-4FT-%WB1G#Z&-**K PV-4FT-%WB1P#Z&-**K	120-277	50/60	0.1	8.5-11.6	1199
PV-8FT-<WBXYZ&-**K PV-8FT-<WBGXYZ&-**K	120-277	50/60	0.25	21.5-28	2384
PV-8FT-=WBXYZ&-**K PV-8FT-=WBGXYZ&-**K	120-277	50/60	0.35	32-40	2384
PV-8FT->WBXYZ&-**K PV-8FT->WBGXYZ&-**K	120-277	50/60	0.40	40-46	2384

Retrofit Kit Model No.	Input Voltage, Vac	Input Frequency, Hz	Input Current, A	Input Wattage, W	Tube Length, mm
PVT5-4FT->WAB@Z&-**, PVT5-4FT->WAB@GZ&-**K	120-277	50/60	0.25	21.5-28	1149
PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K	120-277	50/60	0.25	21.5-28	2384
PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K	120-277	50/60	0.35	32-40	2384
PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K	120-277	50/60	0.40	40-46	2384
PV-8FT->WB*XYZ&-**K (Only for LED driver C)	120-277	50/60	0.389	21.5- 26.5/ 32-40/ 37.5- 46.2	2384

Model Number	PARTS/COMPONENTS INCLUDED IN KIT	TARGET LUMINAIRE		
		APPLICATIONS	TYPE	LAMP-HOLDER
PVT5-4FT->WB@Z&-**K PVT5-4FT->WB@GZ&-**K	-Installation Instructions -LED Tube Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (4ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	G5
PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K	-Installation Instructions -LED Tube Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (4ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	G5
PV-4FT-%WB1#Z&-**K PV-4FT-%WB1G#Z&-**K PV-4FT-%WB1P#Z&-**K	-Installation Instructions -LED Tube Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (4ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	G13
PV-8FT-<WBXYZ&-**K PV-8FT-<WBGXYZ&-**K	-Installation Instructions -LED Tube Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (8ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d
PV-8FT-=WBXYZ&-**K PV-8FT-=WBGXYZ&-**K	-Installation Instructions -LED Tube Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (8ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d
PV-8FT->WBXYZ&-**K PV-8FT->WBGXYZ&-**K	-Installation Instructions -LED Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> • Fluorescent Luminaires (8ft) • Permanently Connected Luminaires • Dry Location • Damp Location • Recessed IC • Recessed Non-IC; • surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d

Model Number	PARTS/COMPONENTS INCLUDED IN KIT	TARGET LUMINAIRE		
		APPLICATIONS	TYPE	LAMP-HOLDER
PVT5-4FT->WAB@Z&-**, PVT5-4FT->WAB@GZ&-**K	-Installation Instructions -LED Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> ▪ Fluorescent Luminaires (4ft) ▪ Permanently Connected Luminaires ▪ Dry Location ▪ Damp Location ▪ Recessed IC ▪ Recessed Non-IC; surface mounted 	Closed type (Diffuser or Lens/Cover)	G5
PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K	-Installation Instructions -LED Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> ▪ Fluorescent Luminaires (8ft) ▪ Permanently Connected Luminaires ▪ Dry Location ▪ Damp Location ▪ Recessed IC ▪ Recessed Non-IC; surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d
PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K	-Installation Instructions -LED Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> ▪ Fluorescent Luminaires (8ft) ▪ Permanently Connected Luminaires ▪ Dry Location ▪ Damp Location ▪ Recessed IC ▪ Recessed Non-IC; surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d
PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K	-Installation Instructions -LED Lamp -Luminaire Marking Labels	<ul style="list-style-type: none"> ▪ Fluorescent Luminaires (8ft) ▪ Permanently Connected Luminaires ▪ Dry Location ▪ Damp Location ▪ Recessed IC ▪ Recessed Non-IC; surface mounted 	Closed type (Diffuser or Lens/Cover)	Fa8 R17d
(#) See Installation Instructions				

TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USC - Products designated USC have been investigated using US requirements as noted in the Test Record.

CNC - Products designated CNC have been investigated using Canadian requirements as noted in the Test Record

*

CUL GENERAL CONSTRUCTION:

Compliance with applicable Canadian requirements is confirmed based on the UL Mark for Canada for the component (i.e. c-UL coverage, which is identified by the UL CCN followed by 7, 8 or 9). Alternatively, the description may include 'CN' immediately after the UL CCN. CN indicates that UL Evaluation Staff have verified that the component meets applicable Canadian requirements for the component based on its CSA approval. 'CN' is always noted in conjunction with the UL CCN indicating UL Certification per applicable US requirements for the component.

GENERAL CHARACTERISTICS AND USE:

These LED Tube Lamp Retrofit Kit consists of Listed (OOLV and OOLV7) or Recognized (OOLV2 and OOLV8) LED tubing lamps, these models intended for connection to the branch circuit of Listed fluorescent luminaires noted in ELECTRICAL RATINGS, with instructions to disconnect the power from the fluorescent ballasts and components and wire directly to the lamp holders.

The units covered by this report are intended to retrofit the maximum amounts of lamps noted in below table, listed surface mounted, type Non-IC or type IC recessed mounted fluorescent luminaires with diffuser. The products are intended to be used in dry and damp locations only.

Retrofit Kit Model No.	Maximum lamps
PVT5-4FT->WB@Z&-**K PVT5-4FT->WB@GZ&-**K, PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K	6
PV-4FT-%WB1#Z&-**K PV-4FT-%WB1G#Z&-**K PV-4FT-%WB1P#Z&-**K	4
PV-8FT-<WBXYZ&-**K PV-8FT-<WBGXYZ&-**K	2
PV-8FT-=WBXYZ&-**K PV-8FT-=WBGXYZ&-**K	2
PV-8FT->WBXYZ&-**K PV-8FT->WBGXYZ&-**K	2
PVT5-4FT->WAB@Z&-**, PVT5-4FT->WAB@GZ&-**K	6
PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K	2
PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K	2
PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K	2
PV-8FT-=WB*XYZ&-**K	2

These products are classified as to FIRE and SHOCK hazards only.

These products are not suitable for use with dimmer.

Except that model PV-8FT->WB*XYZ&-K with alternate LED Driver C have been investigated for use with dimmers.**

For models PV-4FT-%WB1SZ&-**K, PV-4FT-%WB1GSZ&-**K, PV-4FT-%WB1PSZ&-**K, they can receive power from only one end. When powered from only one end, the lamp pins at the other end (opened) are for mechanically supporting only.

The min. luminaire dimension:

Model	Length (mm)	Width (mm)	Height (mm)	Spacing between tube lamps, center to center (mm)
PVT5-4FT->WB@Z&-**K PVT5-4FT->WB@GZ&-**K, PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K	1211	601	79	64
PV-4FT-%WB1#Z&-**K PV-4FT-%WB1G#Z&-**K PV-4FT-%WB1P#Z&-**K	1251	606	75	64
PV-8FT-<WBXYZ&-**K PV-8FT-<WBGXYZ&-**K	2420	110	50	65
PV-8FT-=WBXYZ&-**K PV-8FT-=WBGXYZ&-**K	2420	110	50	65
PV-8FT->WBXYZ&-**K PV-8FT->WBGXYZ&-**K	2420	110	50	65
PVT5-4FT->WAB@Z&-**, PVT5-4FT->WAB@GZ&-**K	1211	601	79	64
PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K	2420	110	50	65
PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K	2420	110	50	65
PV-8FT->WABXYZ&-**K, PV-8FT->WABGXYZ&-**K	2420	110	50	65
PV-8FT-=WB*XYZ&-**K	2420	110	50	65

*

CONSTRUCTION DETAILS

The product covered shall be constructed in accordance with the Section General, and following description.

Grounding and Bonding - The retrofit kit described within this report shall use the existing grounding terminal provided within the luminaire being retrofitted.

Supply Leads - Leads intended for field connection to the branch circuit shall have at least 150mm (6 inches) of free length.

Retrofit Kit Marking		FORMAT
Identification of the company responsible for the product, which may be in a traceable code if device is identified by a brand or trademark owned by a private labeler		S16-L2
Catalog number, model number, series number, or other similar designation		S16-L2
Date code, per Section General.		S16-L2
Factory identification, per Section General or Authorization Page Addendum		S16-L2
Electrical input rating: " ____ VOLTS ____ AMPS ____ WATTS ____ HERTZ" or " ____ V ____ A (or mA) ____ W ____ Hz"		S16-L3
SUITABLE FOR DAMP LOCATIONS	VERBATIM	S16-L2

*

Classification Mark shall include the following or similar

"LED RETROFIT LUMINAIRE CONVERSION
FOR USE ONLY WITH PRODUCTS DESCRIBED AND INSTALLED
IN ACCORDANCE WITH THE INSTRUCTIONS PROVIDED WITH THIS RETROFIT KIT"
File No. E361654

Other markings see Table 1.

MARKINGS AND INSTRUCTIONS

All units shall be provided with marking in accordance with the Standard, Section General and as followed. All markings shall be legible. The following markings are required. If markings are on a label, the label must be R/C (PGDQ2) or (PGJI2), suitable for the surface and rated min. 90°C.

"Verbatim" indicates that the marking shall consist of only the exact words shown, or a marking including these words and conveying the original intent.

See the Section General for marking and installation instruction requirements applicable to all products. In addition, the instructions shall include the following:

	INSTALLATION INSTRUCTIONS		FORMAT
1	"WARNING - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components."		S24-L3 and S24-L5
2	"WARNING - RISK OF FIRE OR ELECTRIC SHOCK. THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED."		S24-L5
3	"WARNING - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings."		S24-L5

CONSTRUCTION DETAILS:


*

*	Table 1 Marking / INSTALLATION INSTRUCTION	TEXT	FORMAT
4	"Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation."	Verbatim	S24-L5
5	WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.		S24-L5
6	WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED luminaire retrofit kit manufacturer. Only suitable for single-end powered lamps.		S24-L5
7	Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.		S24-L5
8	"Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit."		S24-L5
9	"WARNING - Risk of fire. Input ratings may need to be determined based on any configuration(s) permitted by the installation instructions. Regardless of the configuration(s) of the retrofit kit, the input ratings of the overall retrofit kit shall not exceed the marked input ratings of the host luminaire."		S24-L5
10	The installation instructions shall indicate the environmental locations the retrofit kit is suitable for Damp locations.		S24-L5

	Table 1 Marking / INSTALLATION INSTRUCTION	TEXT	FORMAT
11	"Prior to installation, review all environmental designation locations in the retrofit kit installation instructions. Only install in damp locations if so indicated in the installation instructions."		S24-L5
12	<i>FOR RETROFIT KITS CERTIFIED TO CANADIAN REQUIREMENTS</i> THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.	Verbatim	S24-L5

INSTALLATION INSTRUCTIONS - Host Luminaire Type Markings		FORMAT
"For use with fluorescent, Surface-mounted, recessed non-IC, recessed IC luminaires."		S24-L5
"Suitable for open type luminaires."		S24-L5
"Suitable for closed type luminaires."		S24-L5
"Suitable for use with luminaires with maximum * lamps." "*" refer to page 6.		S24-L5
"Suitable for use with luminaires with * lamp compartment." "*" refer to page 6 .		S24-L5
Suitable for operation in luminaires with ambient not exceeding 45 °C. (for all models except models PV-8FT-<WB*XYZ&-*K, PV-8FT-=WB*XYZ&-*K, PV-8FT->WB*XYZ&-*K added alternative "LED Driver B". And for model PV-8FT->WB*XYZ&-*K, added another alternative LED Driver C.)		S24-L5

All kits shall be provided with a self-adhesive label, intended for application to the retrofitted luminaire in accordance with the kit's installation instructions, which includes the following markings:

	Luminaires Markings (Affixed to Luminaire)	Text	Format
1	"This luminaire has been modified to operate LED lamps. Do not attempt to install or operate fluorescent lamps in this luminaire," shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including relamping.	Verbatim	S24-L1
*2	LED Lamp Replacement Marking - Identification of the replacement LED lamp type/model to be used along with manufacturer and ordering information.		S24-L1
*			
3	<p>Text or diagram showing how the supply connections are made to the lampholders. (For a tubular LED lamp conversion)</p> <p>For example:</p>  <p>or similar.</p>		S24-L1

Model PVT5-4FT->WB@*Z&-**K - FIG. 1

General - FIG. 1 depicts the overall view of these Models.

LED Tube - R/C (OOLV2/8), manufactured by XIAMEN PVTECH CORPORATION LTD (E353927). Refer to below for details.

Model No.	Vol./ Sec.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, A
PVT5-4FT->WB@*Z&-**K	V1S9	120-277	50/60	21.5-28	0.25

Installation Instructions - See ILL. 1.

Field-applied Marking Label - See "MARKINGS" details, suitable for adherence to painted surfaces or bare aluminum on end product retrofitted luminaire, with the wording "MARKINGS" details.

Model PV-4FT-%WB1*#Z&-**K- FIG.2

LED Tube - R/C (OOLV2/8), manufactured by XIAMEN PVTECH CORPORATION LTD (E353927). Refer to below for details.

Model No.	Vol./ Sec.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, A
PV-4FT-%WB1*#Z&-**K	V1S9	120-277	50/60	8.5-11.6	0.1

Installation Instructions - See ILL. 2.

Field-applied Marking Label - See "MARKINGS" details, suitable for adherence to painted surfaces or bare aluminum on end product retrofitted luminaire, with the wording "MARKINGS" details.

Model PV-8FT->WB*XYZ&-**K FIG. 3, 3A and 3B
(Also represents models PV-8FT-<WB*XYZ&-**K, PV-8FT-=WB*XYZ&-**K except specified)

General - FIG. 3 depicts the overall view of these Models.

General - FIG. 3A depicts the End cap view of models with CCT Switch.

General - FIG. 3B depicts the End cap view of PV-8FT->WB*XYZ&-**K with CCT and Power Switch.

General - FIG. 3C depicts the End cap view of PV-8FT-=WB*XYZ&-K (for driver T8B7-D76-347B-5CCT) with CCT and Power Switch.**

LED Tube - R/C (OOLV2/8), manufactured by XIAMEN PVTECH CORPORATION LTD (E353927). Refer to below for details.

Model No.	Vol./ Sec.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, A
PV-8FT-<WB*XYZ&-**K	V1S9	120-277	50/60	21.5-28	0.25
PV-8FT->WB*XYZ&-**K (Only for LED driver C)	V1S9	120-277	50/60	21.5- 26.5/ 32-40/ 37.5- 46.2	0.389
PV-8FT-=WB*XYZ&-**K	V1S9	120-277	50/60	32-40	0.35
PV-8FT->WB*XYZ&-**K	V1S9	120-277	50/60	40-46	0.4
PV-8FT-=WB*XYZ&- **K (only for LED driver D)	V1S9	120-347	50/60	34-41	0.35

Installation Instructions - See ILL. 3 and 6.

Model No.	ILL.
PV-8FT->WB*XYZ&-**K, PV-8FT->WB*XYZ&-**K (Only for LED driver C), PV-8FT-<WB*XYZ&-**K, PV-8FT-=WB*XYZ&-**K	I-3
PV-8FT-=WB*XYZ&-**K (only for LED driver D)	I-6

Field-applied Marking Label - See "MARKINGS" details, suitable for adherence to painted surfaces or bare aluminum on end product retrofitted luminaire, with the wording "MARKINGS" details.

Model PVT5-4FT->WAB@Z&-**K - FIG. 4

(Also represent PVT5-4FT->WAB@GZ&-**K, **PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K**)

LED Tube - Listed (OOLV/7), manufactured by XIAMEN PVTECH CORPORATION LTD (E353927). Refer to below for details.

Model No.	Vol./ Sec.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, A
PVT5-4FT->WAB@Z&-**K, PVT5-4FT->WAB@GZ&-**K	V2S10	120-277	50/60	21.5-28	0.25
PVT5-4FT-xWAB@Z&-**K, PVT5-4FT-xWAB@GZ&-**K	V2S10	120-277	50/60	9.5-18	0.125

Installation Instructions - See ILL. 4.

Field-applied Marking Label - See "MARKINGS" details, suitable for adherence to painted surfaces or bare aluminum on end product retrofitted luminaire, with the wording "MARKINGS" details.

Model PV-8FT->WABXYZ&-**K FIG. 5

(Also represents models PV-8FT->WABGXYZ&-**K, PV-8FT-<WABXYZ&-**K, PV-8FT-<WABGXYZ&-**K, PV-8FT-=WABXYZ&-**K, PV-8FT-=WABGXYZ&-**K except specified)

General - FIG. 5 depicts the overall view of these Models.

LED Tube - Listed (OOLV/7), manufactured by XIAMEN PVTECH CORPORATION LTD (E353927). Refer to below for details.

Model No.	Vol./ Sec.	Input Voltage, Vac	Input Frequency, Hz	Input Wattage, W	Input Current, A
PV-8FT->WABXYZ&-**K PV-8FT->WABGXYZ&-**K	V2S10	120-277	50/60	40-46	0.4
PV-8FT-<WABXYZ&-**K PV-8FT-<WABGXYZ&-**K	V2S10	120-277	50/60	21.5-28	0.25
PV-8FT-=WABXYZ&-**K PV-8FT-=WABGXYZ&-**K	V2S10	120-277	50/60	32-40	0.35

Installation Instructions - See ILL. 5.

Field-applied Marking Label - See "MARKINGS" details, suitable for adherence to painted surfaces or bare aluminum on end product retrofitted luminaire, with the wording "MARKINGS" details.