

Magic Direct Replacement Ballast Compatible led tube

There is a magic tube !
It is a magic !

Brief Description

The Magic T8 LED tube achieving UL, DLC and ETL which can work with specific T8 electronic start ballast. This T8 tube also can work without ballast but wire directly to AC100-277V input.



Advantage

- This tube can work both with ballast or without ballast. So it is fantastic direct replacement tube as well as retrofit kit.
- Compatible with most than 90 percent electronic ballast in North American market.
- The wattages and Lumens for the tube itself work with ballast and without ballast are same so it is good for big project which has different type of ballast.
- Input voltage can be AC100-277V with ballast and AC100-277 without ballast.
- Reduces energy consumption up to 40%.
- No UV emission.
- Suitable for dry and damp environments.
- T8 housing available.
- UL, DLC and ETL Qualified.

Common Technical Data

Color Temperature	2700K to 5000K	Input Voltage with ballast	100-277VAC
Beam Angle	120 degree	Input Voltage without ballast	100-277VAC
Color Consistency	4 steps	Frequency	50-60Hz
CRI	More than 80	Power Factor	More than 0.99
Operation Temperature	-30-40C	Rated Life	50000 hours
Efficiency with ballast	More than 110 LPW	Led Type	SMT 2835
Efficiency without ballast	More than 125 LPW	Housing	Aluminum



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Product Specification

Product Number	Qualification	Length	Watt	CCT	Lumens	Package (mm)	Weight/Carton
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	3000K	2160	1260X230X240 25pcs/Carton	11.5KG
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	4000K	2200	1260X230X240 25pcs/Carton	11.5KG
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	18W	5000K	2250	1260X230X240 25pcs/Carton	11.5KG
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	3000K	1700	1260X230X240 25pcs/Carton	11.2KG
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	4000K	1785	1260X230X240 25pcs/Carton	11.2KG
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	4ft	15W	5000K	1825	1260X230X240 25pcs/Carton	11.2KG
ZY-T8-15W600 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	3000K	1700	660X230X240 25pcs/Carton	7.9KG
ZY-T8-15W600 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	4000K	1785	660X230X240 25pcs/Carton	7.9KG
ZY-T8-15W600 BIXXBALLAST COMPATIBLE TUBE	UL,cUL,ETL and DLC	2ft	15W	5000K	1825	660X230X240 25pcs/Carton	7.9KG
ZY-T8-15W900 BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL	3ft	15W	4000K	1800	960X230X240 25pcs/Carton	8.9KG
ZY-T8-18W1500 BIXX BALLAST COMPATIBLE TUBE	ETL	5ft	18W	4000K	2200	1560X230X240 25pcs/Carton	12.7KG
ZY-T8-15W600U BIXX BALLAST COMPATIBLE TUBE	UL,cUL,ETL	2ft	15W	4000K	1800	610X400X210 10pcs/Carton	6.2KG

* The wattage for the tube itself work with ballast and without ballast will be same. But lumens per watt will be almost 10 percent less.

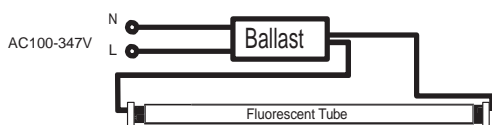
Ordering Guide

ZY	T8	18W/15W/13W	600/1200	B	I	XX
Company Code	Housing Type	Wattage	Length	2835 Led	Internal Driver	Input Type

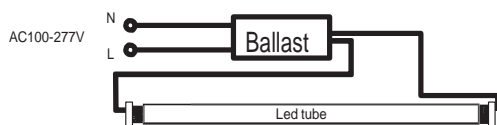
Installation Procedure

“Plug” and “Play” procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.



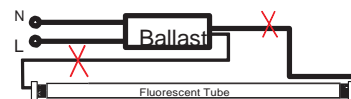
4. Put led tube into the lighting fixture.



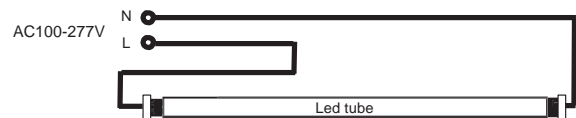
5. Install the LED tubes, close the diffuser.
6. Turn on the Power.

Retrofit procedure

1. Turn off the power to the light fixture at the breaker panel before installation.
2. Open the diffuser from the light fixture.
3. Remove the fluorescent tubes. Please dispose of these items properly as they contain mercury.
4. Cut the wires shown as the diagram below.



5. Make the new wire connect to branch circuit shown as the diagram below.
6. Replace the cover over the wiring channel..
7. Install the LED tubes, close the diffuser.



8. Turn on the Power.

* For one ballast by three fluorescent tubes fixture, at least need to put two pieces of ballast compatible tube.
For one ballast by four fluorescent tubes fixture, at least need to put three pieces of ballast compatible tube.

Warranty

This product has a warranty of period of 5 years from the date of purchase. The warranty is invalid in the case of improper use installation, tampering, and removal of the Q.C. date label, installation in an improper working environment or installation not according to the current edition of the National Electric Code. Should this product fail during the warranty period it will be replaced free of charge, subject to correct installation and return of the faulty unit. James does not accept responsibility for any installation costs associated with the replacement of this product. This warranty is in addition to the statutory rights in your country of purchase. James reserves the right to alter specifications without prior notice.

Caution

Risk of fire. Do not install this lamp in a pre-heat luminaire.

Risk of electric shock.

Use only in place of fluorescent lamps specified on label.

– This device is not intended for use with emergency exists.

– These lamps are to be used in indoor damp location only .

– Not suitable for wet location.

– These lamps are not to be used with a light dimmer.

– Direct replacement for fluorescent Lamps with specific electronic ballast only.

– If the lamp or luminaire exhibits undesirable operation (Buzzing, Flickering, etc), immediately turn off power, remove lamp

from luminaire and contact manufacturer.

– This lamp only operates on electronic ballasts. If lamp does not light when the luminaire is energized, remove this lamp

from luminaire and contact manufacturer.

– Do not make mass installation before testing.

Certification

ONLINE CERTIFICATIONS DIRECTORY

OOLV. E358956

Lamps, Self-ballasted, Light-emitting-diode Type

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Lamps, Self-ballasted, Light-emitting-diode Type

See General Information for Lamps Self-ballasted Light-emitting-diode Type

JAMES INDUSTRY GROUP CO LTD

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Tai Sang Bank Bldg
130-132 Des Voeux Rd
Central, HONG KONG

E358956

LED Lamps intended as direct replacements for specific fluorescent lamps. Model(s): ZY-T8-18WYYYYY WXXX (a), ZY-T8-13WYYYYY WXXX (a), ZY-T8-15WYYYYY WXXX (a), ZY-T8-18WYYYYY WXXX (a), ZY-T8-20WYYYYY WXXX (a).
a, - W denotes LED package type, represented by A or B. O denotes remote LED driver. Y denotes dimmable or non-dimmable, represented by D or N. Z denotes end cap electric connection, represented by S or T, P denotes enclosure shape. R denotes end caps shape. V denotes sensor function.

UL Listed for Ballast Compatible Tube(E358956)

Intertek AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

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Applicant: James Industry Group Co., Ltd	Manufacturer: DONGGUAN ZHUYUAN LIGHTING TECHNOLOGY CO., LTD
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Country: Hong Kong	Country: China
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FAX: --	FAX: --
Email: james@jamesindustry.com	Email: Sale12@jvtech.com.cn

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Intertek Testing Services Hong Kong Limited

Control Number: 4010330 Authorized by: [Signature]

RECOGNIZED COMPONENT

This document supersedes all previous Authorizations to Mark for the noted Report Number.

Intertek Testing Services NA Inc.
549 East Algonquin Road, Arlington Heights, IL 60005
Telephone: 800-345-3951 or 817-439-8667 Fax: 312-293-1672

ETL Listed for Ballast Compatible Tube

DLC Listing

ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (2700K FROSTED)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (3000K FROSTED)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (3500K FROSTED)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (4000K FROSTED)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (4500K FROSTED)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (5000K FROSTED)

ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (2700K CLEAR)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (3000K CLEAR)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (3500K CLEAR)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (4000K CLEAR)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (4500K CLEAR)
ZY-T8-18W1200 BIXX BALLAST COMPATIBLE LED TUBE (5000K CLEAR)

ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (2700K FROSTED)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (3000K FROSTED)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (3500K FROSTED)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (4000K FROSTED)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (4500K FROSTED)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (5000K FROSTED)

ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (2700K CLEAR)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (3000K CLEAR)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (3500K CLEAR)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (4000K CLEAR)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (4500K CLEAR)
ZY-T8-15W1200 BIXX BALLAST COMPATIBLE LED TUBE (5000K CLEAR)

ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (2700K FROSTED)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (3000K FROSTED)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (3500K FROSTED)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (4000K FROSTED)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (4500K FROSTED)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (5000K FROSTED)

ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (2700K CLEAR)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (3000K CLEAR)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (3500K CLEAR)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (4000K CLEAR)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (4500K CLEAR)
ZY-T8-15W600 BIXX BALLAST COMPATIBLE LED TUBE (5000K CLEAR)

Tested Ballast List

Item	Manufacturer	Model	Type	Compatible
1	Philips-Advance	ICN-IP32-N	Instant Start Ballast	✓
2	Philips-Advance	ICN-2P32-N	Instant Start Ballast	✓
3	Philips-Advance	ICN-3P32-N	Instant Start Ballast	✓
4	Philips-Advance	ICN-4P32-N	Instant Start Ballast	✓
5	Philips-Advance	ICN-IP32-SC	Instant Start Ballast	✓
6	Philips-Advance	ICN-2P32-SC	Instant Start Ballast	✓
7	Philips-Advance	ICN-3P32-SC	Instant Start Ballast	✓
8	Philips-Advance	ICN-4P32-SC	Instant Start Ballast	✓
9	Philips-Advance	IOP-1P32-LW-SC	Instant Start Ballast	✓
10	Philips-Advance	IOP-2P32-LW-SC	Instant Start Ballast	✓
11	Philips-Advance	IOP-3P32-LW-SC	Instant Start Ballast	✓
12	Philips-Advance	IOP-4P32-LW-SC	Instant Start Ballast	✓
13	Philips-Advance	IOPA-1P32-LW-N	Instant Start Ballast	✓
14	Philips-Advance	IOPA-2P32-LW-N	Instant Start Ballast	✓
15	Philips-Advance	IOPA-3P32-LW-N	Instant Start Ballast	✓
16	Philips-Advance	IOPA-4P32-LW-N	Instant Start Ballast	✓
17	Philips-Advance	IOPA-1P32-N	Instant Start Ballast	✓
18	Philips-Advance	IOPA-2P32-N	Instant Start Ballast	✓
19	Philips-Advance	IOPA-3P32-N	Instant Start Ballast	✓
20	Philips-Advance	IOPA-4P32-N	Instant Start Ballast	✓
21	Philips-Advance	IOP-1P32-SC	Instant Start Ballast	✓
22	Philips-Advance	IOP-2P32-SC	Instant Start Ballast	✓
23	Philips-Advance	IOP-3P32-SC	Instant Start Ballast	✓
24	Philips-Advance	IOP-4P32-SC	Instant Start Ballast	✓
25	Philips-Advance	IOPA-1P32-HL-SC	Instant Start Ballast	✓
26	Philips-Advance	IOPA-2P32-HL-SC	Instant Start Ballast	✓
27	Philips-Advance	IOPA-3P32-HL-SC	Instant Start Ballast	✓
28	Philips-Advance	IOPA-4P32-HL-SC	Instant Start Ballast	✓
29	Philips-Advance	GOPA-1P32-SC	Instant Start Ballast	✓
30	Philips-Advance	GOPA-2P32-SC	Instant Start Ballast	✓
31	Philips-Advance	GOPA-3P32-SC	Instant Start Ballast	✓
32	Philips-Advance	GOPA-4P32-SC	Instant Start Ballast	✓
33	Philips-Advance	GOP-IPSP32-SC	Instant Start Ballast	✓
34	Philips-Advance	GOP-2PSP32-SC	Instant Start Ballast	✓
35	Philips-Advance	GOP-3PSP32-SC	Instant Start Ballast	✓
36	Philips-Advance	GOP-4PSP32-SC	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
37	Philips-Advance	GOPA-1P32-LW-SC	Instant Start Ballast	✓
38	Philips-Advance	GOPA-2P32-LW-SC	Instant Start Ballast	✓
39	Philips-Advance	GOPA-3P32-LW-SC	Instant Start Ballast	✓
40	Philips-Advance	GOPA-4P32-LW-SC	Instant Start Ballast	✓
41	SYLVANIA	QHE 1X32T8/UNV ISL-SC	Instant Start Ballast	✓
42	SYLVANIA	QHE 2X32T8/UNVISL-SC	Instant Start Ballast	✓
43	SYLVANIA	QHE 3X32T8/UNVISL-SC	Instant Start Ballast	✓
44	SYLVANIA	QHE 4X32T8/UNVISL-SC	Instant Start Ballast	✓
45	SYLVANIA	QHE 1X32T8/UNV ISN-SC	Instant Start Ballast	✓
46	SYLVANIA	QHE 2X32T8/UNV ISN-SC	Instant Start Ballast	✓
47	SYLVANIA	QHE 3X32T8/UNV ISN-SC	Instant Start Ballast	✓
48	SYLVANIA	QHE 4X32T8/UNV ISN-SC	Instant Start Ballast	✓
49	SYLVANIA	QHE 1X32T8/UNV ISH-SC	Instant Start Ballast	✓
50	SYLVANIA	QHE 2X32T8/UNV ISH-SC	Instant Start Ballast	✓
51	SYLVANIA	QHE 3X32T8/UNV ISH-SC	Instant Start Ballast	✓
52	SYLVANIA	QHE 4X32T8/UNV ISH-SC	Instant Start Ballast	✓
53	SYLVANIA	QTP 1X32T8/UNV ISL-SC	Instant Start Ballast	✓
54	SYLVANIA	QTP 2X32T8/UNV ISL-SC	Instant Start Ballast	✓
55	SYLVANIA	QTP 3X32T8/UNV ISL-SC	Instant Start Ballast	✓
56	SYLVANIA	QTP 4X32T8/UNV ISL-SC	Instant Start Ballast	✓
57	SYLVANIA	QTP 1X32T8/UNV ISN-SC	Instant Start Ballast	✓
58	SYLVANIA	QTP 2X32T8/UNV ISN-SC	Instant Start Ballast	✓
59	SYLVANIA	QTP 3X32T8/UNV ISN-SC	Instant Start Ballast	✓
60	SYLVANIA	QTP 4X32T8/UNV ISN-SC	Instant Start Ballast	✓
61	SYLVANIA	QTP 1X32T8/UNV ISH-SC	Instant Start Ballast	✓
62	SYLVANIA	QTP 2X32T8/UNV ISH-SC	Instant Start Ballast	✓
63	SYLVANIA	QTP 3X32T8/UNV ISH-SC	Instant Start Ballast	✓
64	SYLVANIA	QTP 4X32T8/UNV ISH-SC	Instant Start Ballast	✓
65	SYLVANIA	QHE 1X32T8/347 ISL-SC	Instant Start Ballast	✓
66	SYLVANIA	QHE 2X32T8/347 ISL-SC	Instant Start Ballast	✓
67	SYLVANIA	QHE 3X32T8/347 ISL-SC	Instant Start Ballast	✓
68	SYLVANIA	QHE 4X32T8/347 ISL-SC	Instant Start Ballast	✓
69	SYLVANIA	QHE 1X32T8/347 ISN-SC	Instant Start Ballast	✓
70	SYLVANIA	QHE 2X32T8/347 ISN-SC	Instant Start Ballast	✓
71	SYLVANIA	QHE 3X32T8/347 ISN-SC	Instant Start Ballast	✓
72	SYLVANIA	QHE 4X32T8/347 ISN-SC	Instant Start Ballast	✓
73	SYLVANIA	QTP 1X32T8/347 ISN-SC	Instant Start Ballast	✓
74	SYLVANIA	QTP 2X32T8/347 ISN-SC	Instant Start Ballast	✓
75	SYLVANIA	QTP 3X32T8/347 ISN-SC	Instant Start Ballast	✓
76	SYLVANIA	QTP 4X32T8/347 ISN-SC	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
77	GE	GE-132-MV-N	Instant Start Ballast	✓
78	GE	GE-232-MV-N	Instant Start Ballast	✓
79	GE	GE-332-MV-N	Instant Start Ballast	✓
80	GE	GE-432-MV-N	Instant Start Ballast	✓
81	GE	GE-132-MV-N-DIY	Instant Start Ballast	✓
82	GE	GE-232-MV-N-DIY	Instant Start Ballast	✓
83	GE	GE-332-MV-N-DIY	Instant Start Ballast	✓
84	GE	GE-432-MV-N-DIY	Instant Start Ballast	✓
85	GE	GE232MAX347-N	Instant Start Ballast	✓
86	GE	GE432MAX347-N	Instant Start Ballast	✓
87	GE	GE-132-MAX-N/Ultra	Instant Start Ballast	✓
88	GE	GE-232-MAX-N/Ultra	Instant Start Ballast	✓
89	GE	GE-332-MAX-N/Ultra	Instant Start Ballast	✓
90	GE	GE-432-MAX-N/Ultra	Instant Start Ballast	✓
91	GE	GE-132-MAX-L/Ultra	Instant Start Ballast	✓
92	GE	GE-232-MAX-L/Ultra	Instant Start Ballast	✓
93	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	✓
94	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	✓
95	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	✓
96	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	✓
97	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
98	GE	GE-332-MAX-L/Ultra	Instant Start Ballast	✓
99	GE	GE-432-MAX-L/Ultra	Instant Start Ballast	✓
100	GE	GE-132-MAX-H/Ultra	Instant Start Ballast	✓
101	GE	GE-232-MAX-H/Ultra	Instant Start Ballast	✓
102	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
103	GE	GE-332-MAX-H/Ultra	Instant Start Ballast	✓
104	SUNPARK	U-1/32ISE-HBF	Instant Start Ballast	✓
105	SUNPARK	U-2/32ISE-HBF	Instant Start Ballast	✓
106	SUNPARK	U-3/32ISE-HBF	Instant Start Ballast	✓
107	SUNPARK	U-4/32ISE-HBF	Instant Start Ballast	✓
108	SUNPARK	U-1/32ISE-LBF	Instant Start Ballast	✓
109	SUNPARK	U-2/32ISE-LBF	Instant Start Ballast	✓
110	SUNPARK	U-3/32ISE-LBF	Instant Start Ballast	✓
111	SUNPARK	U-4/32ISE-LBF	Instant Start Ballast	✓

Item	Manufacturer	Model	Type	Compatible
112	SUNPARK	U-1/32ISE	Instant Start Ballast	✓
113	SUNPARK	U-2/32ISE	Instant Start Ballast	✓
114	SUNPARK	U-3/32ISE	Instant Start Ballast	✓
115	HOWARD	EP3/32IS/MV/MC/HE	Instant Start Ballast	✓
116	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast	✓
117	KEYSTONE	KTEB-432-UV-IS-N-P	Instant Start Ballast	✓
118	PROLUME	EP232IS/L/MV/SL	Instant Start Ballast	✓
119	PROLUME	EP232IS/L/MV/HE	Instant Start Ballast	✓
120	RADIONIC	E232H12	Instant Start Ballast	✓

Note: 1, This tube maybe can not work with the ballasts in the above list because they are too old or maybe have special technical data.

2, This tube maybe can work with the ballasts which not covered by the above list because there are so many ballast models.

3, Donot make mass installation without testing.