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LED Tube, Evolution.

The new standard for LED tube lighting in America.

LED TUBE

NEW 3 WAY TUBE

**One Tube,
Three Wattages,
No Dimmer Required.**

LED T8 GLASS 3WAY™ TUBE



HOW IT WORKS

One Tube, Three Wattages. No Dimmer Required.

Control the brightness with a regular on/off switch:

1. Switch on 100%
2. Switch off and on 50%
3. Switch off and on 25%

Leave it off for 10 seconds at any brightness and the next time you turn it on its back to 100%.

STAND OUT FROM THE COMPETITION

Just one more reason to choose you is all that is needed sometimes: The added functionality gives that additional reason to abandon other choices. Our 3WAY™ TUBE can be used as a regular tube but gives the freedom to dim the lighting when it's needed to save more money than normal and to shorten their return on investment time.

- Added functionality vs. no functionality
- Possibility of higher savings vs. no possibility of higher savings
- Looks like a traditional fluorescent T8 tube, perfect for Parabolic fixtures
- UL | DLC | RoHS | FCC Certified
- Tested and qualified 50,000 hours life span, 5 years warranty

LED T8 GLASS 3WAY™ TUBE

LOWER INSTALLATION COSTS

Our 3WAY™ TUBE was designed to make the installation process easier and quicker: Works directly with an electronic instant start ballast or without a ballast because contractors never know what they're going up against until those ceiling panels are lifted and every fixture is double checked. Because the dimming function is built into the tube, there's no need to change or add a dimmable ballast and install additional wiring for the dimmer switch.

- Works with Electronic Instant Start ballasts (UL & DLC Type A Certified)
- Works without a ballast (UL & DLC Type B Certified)
- No dimmable ballast or dimmer wiring required

APPLICATIONS

- Commercial Offices & Industrial Facilities
- Education & Governmental Facilities
- Medical & Health Care Facilities
- Retail Stores, Banks & Food Services
- Airports, Train/Subway Stations & Bus Stations

SPECIFICATIONS

SKU	LAMP CODE	SIZE	CCT	LPW	100% LMN	50% LMN	25% LMN
ES18190-x	44-T8-60-10W-xxK-GL-D-AB-1	2ft	3,4, 5000k	113.4	10W 1347	5.0W 674	2.50W 337
*ES18191-x	44-T8-120-12W-xxK-GL-D-AB-1	4ft	3,4, 5000k	150.0	*12W 1800	6.0W 900	3.00W 450
*ES18192-x	44-T8-120-15W-xxK-GL-D-AB-1	4ft	3,4, 5000k	126.0	*15W 2150	7.5W 1075	3.75W 538
ES18193-x	44-T8-120-18W-xxK-GL-D-AB-1	4ft	3,4, 5000k	131.6	18W 2500	9.0W 1250	4.50W 625

Notes:

- LPW and LMN reflect CCT of 5000k. Other CCT available, please inquire.

- Dim settings can be altered with factory order.

- DLC rating will show highest wattage use only.

NOTE! * Only stocking 4 foot, 12 Watt & 15W, 4000K & 5000K, others are Special order!

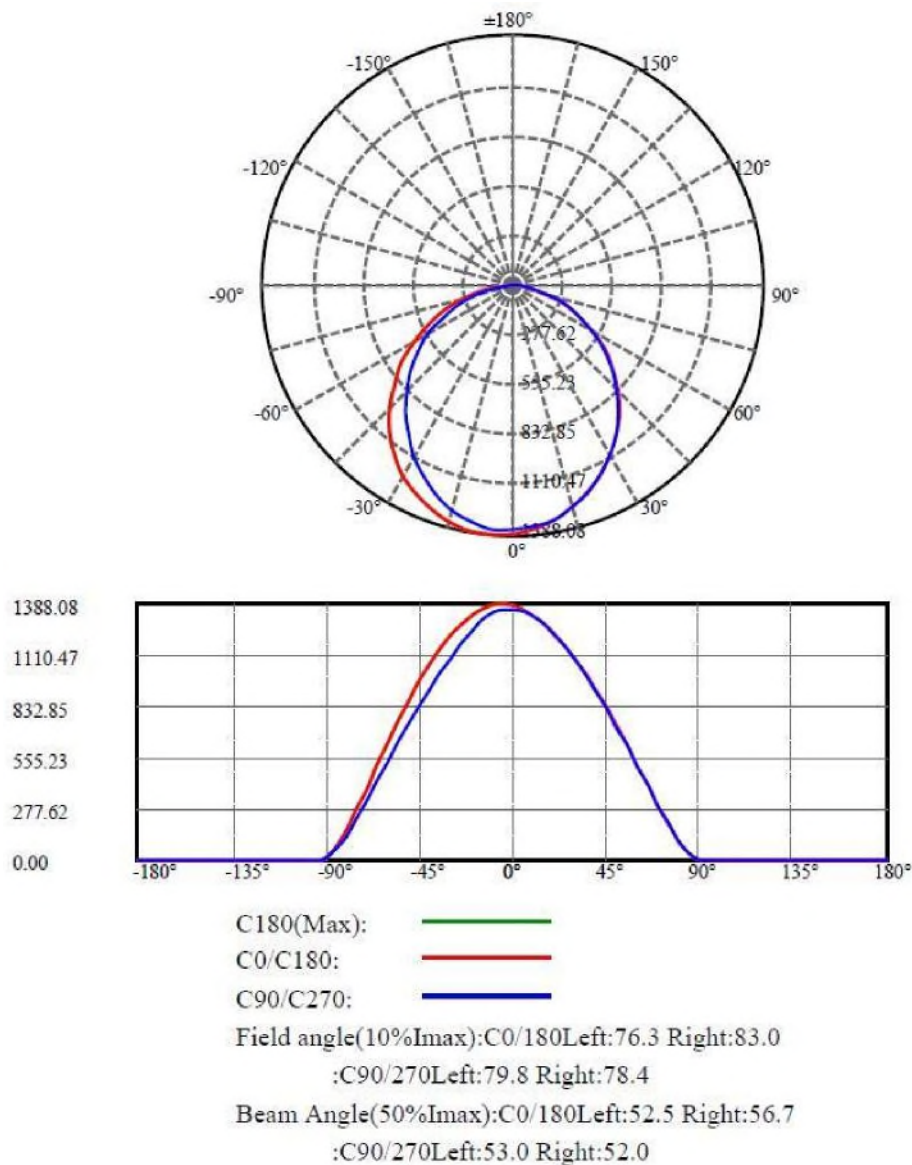
SHARED CHARACTERISTICS

BRAND	EST	Operating Temperature	-20°C ~ +45°C
Color Rendering Index	>80	IP Rating	IP20
Beam Angle	>220°	Base Type	G13
Lumen Maintenance	50,000 Hours	Starting Time	<1.0 s
Power Factor	≥0.9	Material Usage	RoHS compliant; no mercury
Operating Frequency	50/60Hz	Dimmable	Yes (Step Dimming)

MODEL SELECTION

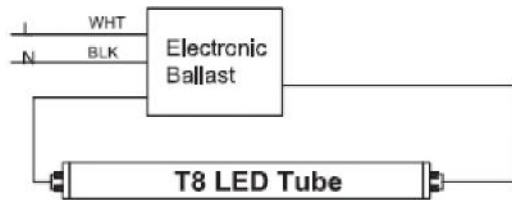
Assembly Line	Category	Length	Wattage	CCT	Material	Dimming	DLC Type	Version
XX	-YX	-XX	-XXW	-XXK	-YY	-Y	-YY	-Z
44 = Internal	T8 = T8 Tube	60 = 2ft 120 = 4ft	10W 12W 15W 18W	30K = 3000k 40K = 4000k 50K = 5000k	GL=Glass	D = Step Dimming	AB = DLC Type A & B	1 = First Version

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

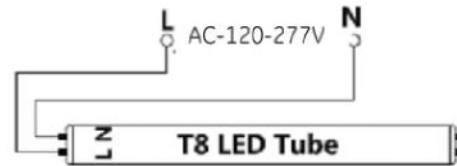


WIRING DIAGRAM

TYPE A



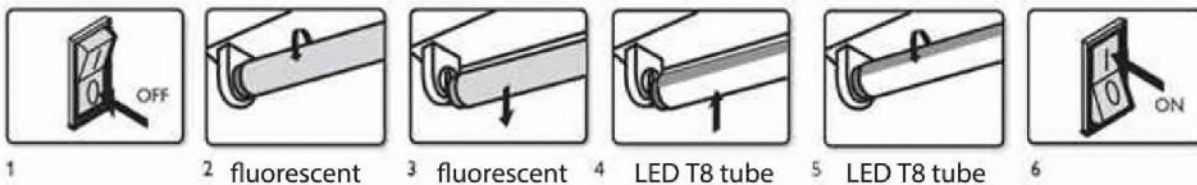
TYPE B



INSTALLATION INSTRUCTION

Type A

1. Make sure to turn power off by disconnecting the supply voltage.
2. Remove diffuser (if provided).
3. Remove the conventional fluorescent lamp and dispose of them properly.
4. Verify the existing ballast is on our ballast list or not. Plug T8 LED tube into lamp holders.
5. Re-install diffuser (if removed in step 2)
6. Turn power on and check the light distribution angle.



Type B

1. Remove the existing ballast and rewire as AC 100-277V input
2. Put on LED tube into the lamp holders of existing fixture
3. Put on the cover diffuser (if needed)
4. Turn on the power and check the light distribution

3 STEP DIMMING FUNCTION

Step Dimming

* Turn on the power.

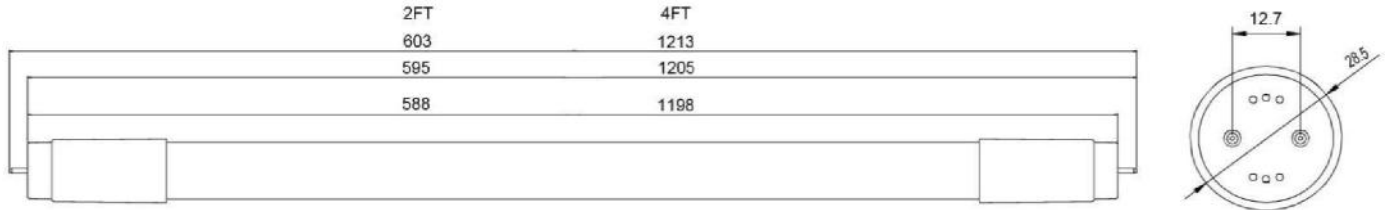
* Switch off & on to adjust brightness.



STEP	SWITCH	OUTPUT
1st	OFF/ON	100%
2nd	OFF/ON	50%
3rd	OFF/ON	25%

PRODUCT DIMENSION

Size	L	W	H	Weight
2ft	23.74"	1"	1"	0.1kg / 0.22 lbs
4ft	47.76"	1"	1"	0.2kg / 0.44 lbs



PACKAGE DIMENSION

Size	Size of Carton L*W*H(mm/in)	Net Weight/pcs	Package Gross Weight
2ft	605x 195 x 200mm / 23.82"x 7.7"x 7.9"	0.1kg / 0.22 lbs	3.2kg / 7.05 lbs
4ft	1205 x 195 x 200mm / 47.4"x 7.7"x 7.9"	0.2kg / 0.44 lbs	6.4kg / 14.1 lbs

PACKAGE INFORMATION

Product	Quantity		Container (w/o pallets)				Container (with pallet)				
	Size	/ Box	/ Pallet	20'GP	40'GP	40'HQ	45'HQ	20'GP	40'GP	40'HQ	45'HQ
2ft		25	2500	21000	60000	66000	76000	18000	52000	56000	64000
4ft		25	1250	11000	25000	33000	38000	10125	22500	28000	32000

CAUTION

1. When installing, make sure that power is switched off before connecting or disconnecting to lamp fixture.
2. If the LED tube in luminaire exhibits abnormal operation (buzzing, flickering, minimal light, etc.), turn off power, remove lamp and contact us.
3. This lamp only operates on instant start electronic ballasts.
4. Risk of fire, loose contact or wrong installing may cause arcing lead to FIRE. If lamp-holders are damaged, corroded, charred, blackened, or loose, contact a qualified electrician for proper replacement.



1 Tube is not installed properly



2 Pin is not inserted into lamp holder



3 Loose contact



4 Wrong angle



5 Pin is not inserted into lamp holder

5. Tube installed properly



BALLAST COMPATIBILITY LIST

BRAND	MODEL	BRAND	MODEL
OSRAM SYLVANIA	QHE 1x32T8/UNV ISN-SC	KEYSTONE	KTEB-432-UV-IS-N-P
	QHE 2x32T8/UNV ISN-SC		KTEB-232RIS-1-TP-SL
	QHE 4x32T8/UNV ISL-SC		KTEB-232RIS-1-TP-SL/G
	QHE 2x32T8/UNV ISL-SC	HALCO	EP232IS/L/MV/HE
	QHE 2x32T8/UNV PSN-MC	ACCUPRO	AP-432IP-UNV
	QHE 2x32T8/UNV PSX-MC	ESPEN	VE232MVHIPLE
	QHE 3x32T8/UNV ISL-SC		VE432MVHIPLE
	QTP 2x32T8/UNV ISL-SC		VE432120HIP
	QT 2x32 T8/347 ISL-SC	UNIVERSAL / TRIAD	B432IUNVHE-A
	QHE 4x32T8/347 ISL-SC		B232IUNVEL-N
	QHE 3x32T8/UNV ISN-SC		B232IUNVHP-N
GENERAL ELECTRIC (GE)	GE232MAX-L/Ultra		B332IUNVHP-A
	GE232MAX347-N		B432IUNVHP-A
	GE432MAX347-N		B232IUNVHP-B
	GE432MAX-G-N	B332PUNVHE-A	
	GE432MAX-G-N-42T	B432IUNVEL-A	
	GE232-MVPS-N	PHILIPS ADVANCE	ICN-3P32-N
	GE432-MVPS-N		ICN-4P32-N
	GE432MV-N-42T		IOP-4P32-LW-N
	GE432MAXP-H/ULTRA		IOPA-4P32-N
	GE432MAXP-L/ULTRA		IOPA-4P32-LW-N
GE432-120RESDIYB	IOP-3P32-N		
HOWARD INDUSTRIES	EP3/32IS/MV/MC/HE		IOP-4PSP32-SC
PACIFIC FLUORESCENT	EB-232IS-120-RES		REB-4P32-SC
			REL-2P32-SC

Please note:

We're constantly testing new ballasts. Please request updated ballast list if required or call with a specific ballast and we'll prioritize its' testing.