



# LED Instant Start T8 Tubes

Product Specifications  
Type A



## Reasons to choose the LED Instant T8 Tubes from TCP

- >50% Energy savings compared to fluorescent
- 50,000 hour life minimizes the need for replacements and labor costs
- Compatible with Instant Start ballasts
- No rewiring of fixture necessary
- Instant on/off
- No mercury – great for all environments
- Rated for enclosed fixtures
- 4' tubes options available
- No UV

## Ideal Applications

- Offices
- Restaurants
- Retail Stores
- Lobbies
- Schools
- Hospitals

## Specifications:

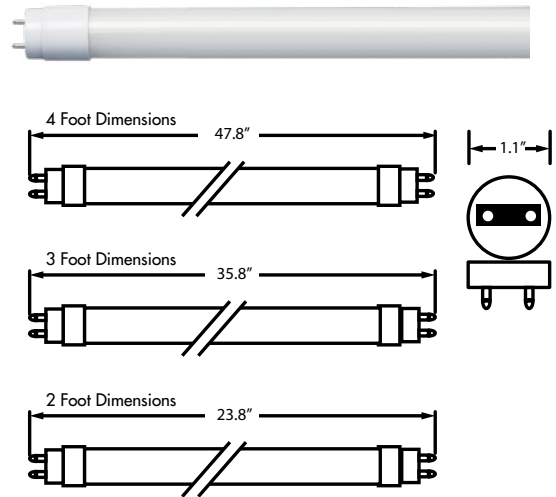
### Listing

Damp location rated  
Approved for open and enclosed fixtures  
cULus/cETLus Listed

### Warranty

50,000 hours rated life  
Five years against defects in manufacturing

LED T8 Tube  
T80430 4 foot



Item #	Min Starting Temp	Max Operating Temp	Voltage	NSF 2 Rated	Beam Angle	Field Angle*	PF	THD**
L12T8	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
LS4T8	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
LPT809HO	-20C / -4F	45C / 113F	120-277V	Yes	190°	310°	> .99	< 8%
LT818A	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
L11T83	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
L9T8	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
L11T8	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
T80430	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
L12T8-95	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%
LPT815A	-20C / -4F	45C / 113F	120-277V	No	190°	310°	> .99	< 8%

\*Calculated \*\*At 120v, ballast dependent

**Note:** All Type A Tubes are double end wired construction. Use only G13 sockets

## LED DirecT8™ Instant Start

Item#	Description	DLC Model #	LED Watts	LBF System Watts	NBF System Watts	HBF System Watts	LBF Lumens	NBF Lumens	HBF Lumens	NBF LPW	Color Temp	CRI	Repl. Fluor. Watts
<b>LED 12 WATT T8 TUBE</b>													
L12T8D5030K	LED 12W 4' T8 IS 30K	L12T8D5030K	12	13.0	14.9	21.5	1260	1700	2280	114.1	3000K	80	32
L12T8D5035K	LED 12W 4' T8 IS 35K	L12T8D5035K	12	13.0	14.9	21.5	1300	1750	2340	117.4	3500K	80	32
L12T8D5041K	LED 12W 4' T8 IS 41K	L12T8D5041K	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32
L12T8D5050K	LED 12W 4' T8 IS 50K	L12T8D5050K	12	13.0	14.9	21.5	1380	1850	2480	124.2	5000K	80	32
L12T8D5030KBP	LED 12W 4' T8 IS 30K BULK25	L12T8D5035KBP	12	13.0	14.9	21.5	1260	1700	2280	114.1	3000K	80	32
L12T8D5035KBP	LED 12W 4' T8 IS 35K BULK25	L12T8D5041KBP	12	13.0	14.9	21.5	1300	1750	2340	117.4	3500K	80	32
L12T8D5041KBP	LED 12W 4' T8 IS 41K BULK25	L12T8D5050KBP	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32
<b>LED 12 WATT 4' PLASTIC TUBE</b>													
LPT815A41KBP	LED 12W 4' T8 IS PL 41K BULK25	LPT815A41KBP	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32
<b>LED 12 WATT 4' TUBE</b>													
LS4T815IS41K	LED 15W 4' T8 IS 41K		15	14.8	17	24.5	1225	1650	2200	97.1	4100K	80	32
<b>LED HIGH OUTPUT 9.5 WATT 4' TUBE – PET COATED GLASS NSF2 RATED</b>													
LPT809HOA41K	LED 9.5W 4' T8 HO A 41K SC	T8049241E	9.5	11.3	13	18.8	1400	1900	2500	146.2	4100K	80	32
LPT809HOA50K	LED 9.5W 4' T8 HO A 50K SC	T8049250E	9.5	11.3	13	18.8	1480	2000	2660	153.8	5000K	80	32
<b>LED 15 WATT 4' TUBE</b>													
LT818A30K	LED 18W 4' T8 IS 30K	T8043330E	15	15.4	17.5	25.7	2000	2300	3380	131.4	3000K	80	32
LT818A35K	LED 18W 4' T8 IS 35K	T8043335E	15	15.4	17.5	25.7	2050	2350	3450	134.3	3500K	80	32
LT818A41K	LED 18W 4' T8 IS 41K	T8043341E	15	15.4	17.5	25.7	2050	2350	3450	134.3	4100K	80	32
LT818A50K	LED 18W 4' T8 IS 50K	T8043350E	15	15.4	17.5	25.7	2100	2400	3525	137.1	5000K	80	32
<b>LED 11 WATT 3' TUBE</b>													
L11T83D5027K	LED 11W 3' T8 IS 27K		11	11.6	13.5	19.2	950	1300	1730	96.3	2700K	80	25
L11T83D5030K	LED 11W 3' T8 IS 30K		11	11.6	13.5	19.2	1040	1400	1870	103.7	3000K	80	25
L11T83D5035K	LED 11W 3' T8 IS 35K		11	11.6	13.5	19.2	1080	1450	1940	107.4	3500K	80	25
L11T83D5041K	LED 11W 3' T8 IS 41K		11	11.6	13.5	19.2	1110	1500	2000	111.1	4100K	80	25
L11T83D5050K	LED 11W 3' T8 IS 50K		11	11.6	13.5	19.2	1150	1550	2070	114.8	5000K	80	25
<b>LED 9 WATT T8 TUBE 2' TUBE</b>													
L9T8D5027K	LED 9W 2' T8 IS 27K		9	8.5	9.5	14.2	800	1100	1470	115.8	3000K	80	17
L9T8D5030K	LED 9W 2' T8 IS 30K		9	8.5	9.5	14.2	850	1150	1540	121.1	3000K	80	17
L9T8D5035K	LED 9W 2' T8 IS 35K	L9T8D5035K	9	8.5	9.5	14.2	870	1175	1575	123.7	3500K	80	17
L9T8D5041K	LED 9W 2' T8 IS 41K	L9T8D5041K	9	8.5	9.5	14.2	890	1200	1600	126.3	4100K	80	17
L9T8D5050K	LED 9W 2' T8 IS 50K	L9T8D5050K	9	8.5	9.5	14.2	910	1225	1640	128.9	5000K	80	17
<b>LED 11 WATT HIGH EFFICACY 4' TUBE</b>													
L11T8D5030K	LED 11W 4' T8 HE IS 30K		11	11.3	13.6	18.5	1340	1800	2410	132.4	3000K	80	32
L11T8D5035K	LED 11W 4' T8 HE IS 35K	L11T8D5035K	11	11.3	13.6	18.5	1380	1850	2480	136	3500K	80	32
L11T8D5041K	LED 11W 4' T8 HE IS 41K	L11T8D5041K	11	11.3	13.6	18.5	1410	1900	2540	139.7	4100K	80	32
L11T8D5050K	LED 11W 4' T8 HE IS 50K	L11T8D5050K	11	11.3	13.6	18.5	1450	1950	2610	143.4	5000K	80	32
<b>LED 10 WATT HIGH EFFICACY 4' TUBE</b>													
T8043040EBP	LED 10W 4' T8 HE IS 41K	T8043340E	10	11.6	13.2	19.4	1625	1850	2700	140.2	4100K	80	32
<b>LED 12 WATT 4' TUBE HIGH CRI</b>													
L12T83D5027K95	LED 12W 4' T8 IS/RS 27K 95		12	13	14.9	21.5	1300	1750	2340	117.4	2700K	90	32
L12T83D5030K95	LED 12W 4' T8 IS/RS 30K 95		12	13	14.9	21.5	1340	1800	2400	120.8	3000K	90	32
L12T83D5035K95	LED 12W 4' T8 IS/RS 35K 95		12	13	14.9	21.5	1340	1800	2400	120.8	3500K	90	32
L12T83D5041K95	LED 12W 4' T8 IS/RS 41K 95		12	13	14.9	21.5	1360	1825	2425	122.5	4100K	90	32
L12T83D5050K95	LED 12W 4' T8 IS/RS 50K 95		12	13	14.9	21.5	1380	1850	2480	124.2	5000K	90	32

\* DLC qualified product at time of printing, consult [designlights.org](http://designlights.org) for the most up-to-date listing.

For the most up-to-date specs and warranty information, please visit [www.tcp.com](http://www.tcp.com)



# LED Instant Start DirecT8™ Ballast Guides

## Instant Start Ballasts Compatible with LED DirecT8™

Manufacturer	Model #	Voltage	Manufacturer	Model #	Voltage	
ESPEN	VE2P32MVHIPE	UNV	Philips/Advance (cont.)	ICN-1P32-N	UNV	
	VE4P32MVHIPE	UNV		ICN-2P32-N	UNV	
GE	GE132MAXL/ULTRA	UNV		ICN-3P32-N	UNV	
	GE132MAXPN/ULTRA	UNV		ICN-2P32-SC	UNV	
	GE232MAX347-N	347		ICN-4P32-N	UNV	
	GE232MAXN/ULTRA	UNV		GOPA-2P32-SC	347	
	GE232MAXG-N	UNV		GOPA-4P32-SC	347	
	GE232MAXPN/ULTRA	UNV		REL-2P32-SC	UNV	
	GE232MAXH/ULTRA	UNV		REL-2P32-RH-TP	UNV	
	GE232MAXPH/ULTRA	UNV		VEL-2P32-SC	UNV	
	GE232MAXPL/ULTRA	UNV		VEL-4P32-SC	UNV	
	GE	GE332MAXL/ULTRA		UNV	IOP-3P32HL-90L-SC	UNV
		GE332MAXN/ULTRA		UNV	VOP-2P32-LW	277
		GE332MAXPN/ULTRA		UNV	GEL-2P32-SC	347
		GE332MAXG-N		UNV	GEL-3P32-SC	347
		GE332MAXH/ULTRA		UNV	IOPA-3P32-N	UNV
GE432MAXPL/ULTRA		UNV		IOPA-2P32-N	UNV	
GE432MAXG-N		UNV		ICN-3P32-SC	UNV	
GE432MAXN/ULTRA		UNV		GEL-3P32-RH-TP	UNV	
GE432MAXH/ULTRA		UNV		GOPA-2P32-N	347	
GE432MAXPH/ULTRA		UNV	Standard	E432T8IS120/N/AS	UNV	
Osram/Sylvania	QHE2X32T8/UNV ISN-SC	UNV		E232T8IS120/N/AS	UNV	
	QHE2X32T8/UNV ISL-SC	UNV		E432P1347G0/347	347	
	QHE2X32T8/UNV ISH-SC	UNV		E232T8IS347/H/90C	347	
	QHE2X32T8/347 ISN-SC	347		E432T8IS347/H/90C	347	
	QHE4X32T8/UNV ISN-SC	UNV	TCP	E2P32ISUNVE	UNV	
	QHE4X32T8/UNV ISL-SC	UNV		E2P32ISUNVHE	UNV	
	QHE4X32T8/UNV ISH-SC	UNV		E2P32ISUNVLE	UNV	
	QHE4X32T8/UNV ISH	UNV		E3P32ISUNVE	UNV	
	QTP2X32T8/UNV ISN-SC	UNV		E3P32ISUNVHE	UNV	
	QTP3X32T8/UNV ISN-SC	UNV		E3P32ISUNVLE	UNV	
	QTP2X32T8/UNV ISL-SC	UNV		E4P32ISUNVE	UNV	
	QTP3X32T8/UNV ISL-SC	UNV		E4P32ISUNVHE	UNV	
	QTP2X32T8/UNV ISH-SC	UNV		E4P32ISUNVLE	UNV	
	QTP3X32T8/UNV ISH-SC	UNV		E2P32IS120RES	UNV	
QTP4X32T8/UNV ISN-SC	UNV	Universal	B132IUNVHP-N	UNV		
Philips/Advance	IOPA-2P32-LW-N		UNV	B232IUNVHP-N	UNV	
	IOPA-3P32-LW-N		UNV	B232IUNVELA rev D	UNV	
	IOPA-4P32-LW-N		UNV	B232I277RHA	277	
	IOPA-4P32-N		UNV	B232IUNVHP-N	UNV	
	IOPA-2P32-HL-N		UNV	B332IUNVHP-A	UNV	
	IOPA-3P32-HL-N		UNV	B4321277RHA	277	
	IOPA-2P32-LW-SC		UNV	B4321120RHA	UNV	
	IOPA-4P32-LW-SC		UNV	B2321120RHA*	UNV	
	IOP-2P32-LW-N		UNV	B4321UNVHP-A	UNV	
	IOP-3P32-LW-N	UNV	B23IUNVHP-N010C	UNV		
IOP-4P32-LW-N	UNV	B232IUNVELA	UNV			
IOP-3P32-N	UNV	Keystone	KTEB-232-LVHS-NP	UNV		

## Emergency Ballasts Compatible with LED DirecT8™

Manufacturer	Model #	Voltage
IOTA	I-320	I-320
Bodine	B30	B30
	B50	B50

## Philips/Advance Type C Drivers Compatible with LED DirecT8

Manufacturer	Model #	Voltage
Philips/Advance	ICN-2P16-TLED-N	UNV
	ICN-3P16-TLED-N	UNV
	ICN-4P16-TLED-N	UNV
	ICN-4P-16-TLED-HL-N	UNV
	ICN-2P-16-TLED-HL-N	UNV
	IZT-2P16-TLED-SC	UNV
	IZT-4P16-TLED-SC	UNV

\*Requires 5 minutes of warm up time

Instant Start Ballasts Not Recommended for use with LED DirecT8 include:

Philips/Advance: IOP-3P32-LW-SC, IOP-2P32-LW-SC

Ballast compatibility tests are performed under a controlled lab environment. Field conditions may vary from this type of environment. Ballasts may differ by age and could have undergone revisions under the same item number affecting compatibility. Compatibility may also extend beyond this list. TCP recommends trying a few ballast-lamp combinations in an on-site test to ensure compatibility and performance before a major installation.

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5 YEAR WARRANTY

To view our DLC qualified products, please consult the DLC Qualified Products List at [www.designlights.org/qpl](http://www.designlights.org/qpl).

# TECHNOLOGY CAST IN A BEAUTIFUL LIGHT

For over 20 years, TCP has been designing, developing and delivering energy-efficient lighting into the market. Thanks to our cutting-edge technology and manufacturing expertise, we have shipped billions of high quality lighting products. With TCP, you can count on a lighting product that is designed to meet the needs of the market - that transforms your surroundings and envelopes you in warmth - lighting that generates beauty with every flip of the switch.

Sales:

Date:

Model:

Project:

Rep:

Catalog Number:

Type:

Notes:



For more information on the quality and care TCP can deliver, call us at **800.324.1496** or visit [tcp.com](http://tcp.com)

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