



# LED Instant Start T8 Tubes

Product Specifications  
Type A



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

- >50% Energy savings
- 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
- 2', 3', 4' tubes options available
- No UV

## Ideal Applications

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

## Specifications:

### Listing

UL/cUL Listed – damp location rated  
Approved for open and enclosed fixtures

### Warranty

Five years against defects in manufacturing

LED T8 Tube  
4 foot



LED T8 Tube  
4 foot  
L12T8/LT818A



LED T8 Tube  
3 foot

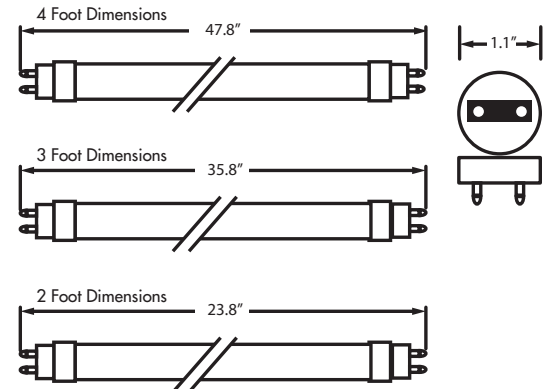


LED T8 Tube  
2 foot



Item #	Min Starting Temp	Max Operating Temp	Voltage	NSF 2 Rated	Beam Angle	Field Angle*	PF	THD**
L12T8	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
LPT809HO	-20C / -4F	45C / 113C	120-277	Yes	190°	310°	> .99	< 8%
LPT815A	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
LT818A	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
L12T8-95	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
T80414095P	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
L11T8	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
T80430	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
L11T83	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%
L9T8	-20C / -4F	45C / 113C	120-277	No	190°	310°	> .99	< 8%

**NOTE:** Use shunted sockets for Instant Start ballasts. Use unshunted sockets for Rapid, Programmed, and Dimmable ballasts.



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



# LED Instant Start DirecT8™ Tubes

## LED DirecT8™ Instant Start

Item#	Description	DLC QPL*	Lamp Watts	Equip Watts	LBF System Watts	NBF System Watts	HBF System Watts	LBF Lumens	NBF Lumens	HBF Lumens	CCT	CRI	Base
<b>LED 12 WATT T8 TUBE – 4 FOOT GLASS (DLC SEARCH "L12T8D50**")</b>													
L12T8D5030K	LED 12W 4' T8 IS 30K	★	12W	32W	13.0	14.9	21.5	1260	1700	2280	3000K	80	G13
L12T8D5035K	LED 12W 4' T8 IS 35K	★	12W	32W	13.0	14.9	21.5	1300	1750	2340	3500K	80	G13
L12T8D5041K	LED 12W 4' T8 IS 41K	★	12W	32W	13.0	14.9	21.5	1340	1800	2400	4100K	80	G13
L12T8D5050K	LED 12W 4' T8 IS 50K	★	12W	32W	13.0	14.9	21.5	1380	1850	2480	5000K	80	G13
L12T8D5030KBP	LED 12W 4' T8 IS 30K BULK PACK	★	12W	32W	13.0	14.9	21.5	1340	1800	2400	3000K	80	G13
L12T8D5035KBP	LED 12W 4' T8 IS 35K BULK PACK	★	12W	32W	13.0	14.9	21.5	1340	1800	2400	3500K	80	G13
L12T8D5041KBP	LED 12W 4' T8 IS 41K BULK PACK	★	12W	32W	13.0	14.9	21.5	1340	1800	2400	4100K	80	G13
L12T8D5050KBP	LED 12W 4' T8 IS 50K BULK PACK	★	12W	32W	13.0	14.9	21.5	1380	1850	2480	5000K	80	G13
<b>LED HIGH OUTPUT 9.5 WATT T8 TUBE – 4 FOOT PET COATED GLASS (DLC SEARCH "T80492XXE**")</b>													
LPT809HOA41K	LED 9.5W 4' T8 HO A 41K SC	★	9.5W	32W	11.5	13	19	1400	1900	2500	4100K	80	G13
LPT809HOA50K	LED 9.5W 4' T8 HO A 50K SC	★	9.5W	32W	11.5	13	19	1450	2000	2600	5000K	80	G13
<b>LED 15 WATT T8 TUBE – 4 FOOT GLASS MODEL# T80433 (DLC SEARCH "T80433**")</b>													
LT818A30K	LED 15W 4' T8 IS 30K	★	15W	32W	15.4	17.5	25.7	2000	2300	3380	3000K	80	G13
LT818A35K	LED 15W 4' T8 IS 35K	★	15W	32W	15.4	17.5	25.7	2050	2350	3450	3500K	80	G13
LT818A41K	LED 15W 4' T8 IS 41K	★	15W	32W	15.4	17.5	25.7	2050	2350	3450	4100K	80	G13
LT818A50K	LED 15W 4' T8 IS 50K	★	15W	32W	15.4	17.5	25.7	2100	2400	3525	5000K	80	G13
<b>LED 12 WATT HIGH CRI T8 TUBE – 4 FOOT GLASS MODEL# T8021</b>													
L12T8D5027K95	LED 12W 4' T8 IS 27K 95		12W	32W	13.0	14.9	21.5	1300	1750	2340	2700K	90	G13
L12T8D5030K95	LED 12W 4' T8 IS 30K 95		12W	32W	13.0	14.9	21.5	1340	1800	2400	3000K	90	G13
L12T8D5035K95	LED 12W 4' T8 IS 35K 95		12W	32W	13.0	14.9	21.5	1340	1800	2400	3500K	90	G13
L12T8D5041K95	LED 12W 4' T8 IS 41K 95		12W	32W	13.0	14.9	21.5	1360	1825	2425	4100K	90	G13
L12T8D5050K95	LED 12W 4' T8 IS 50K 95		12W	32W	13.0	14.9	21.5	1380	1850	2480	5000K	90	G13
T80414095P	LED 12W 4' T8 IS 41K 95		12W	32W	12.5	15.0	21.5	1050	1400	1860	4100K	90	G13
<b>LED 11 WATT HIGH EFFICACY T8 TUBE – 4 FOOT GLASS MODEL# T8024</b>													
L11T8D5030K	LED 11W 4' T8 HE IS 30K		11W	32W	11.3	13.6	18.5	1340	1800	2410	3000K	80	G13
L11T8D5035K	LED 11W 4' T8 HE IS 35K	★	11W	32W	11.3	13.6	18.5	1380	1850	2480	3500K	80	G13
L11T8D5041K	LED 11W 4' T8 HE IS 41K	★	11W	32W	11.3	13.6	18.5	1410	1900	2540	4100K	80	G13
L11T8D5050K	LED 11W 4' T8 HE IS 50K	★	11W	32W	11.3	13.6	18.5	1450	1950	2610	5000K	80	G13
<b>LED 10 WATT HIGH EFFICACY T8 TUBE – 4 FOOT GLASS BULK PACK MODEL# T80430 (DLC SEARCH "T80430**")</b>													
T8043040EBP	LED 10W 4' T8 HE IS 40K BULK PACK	★	10W	32W	11.6	12.5	19.4	1625	1850	2700	4000K	80	G13
T8043050EBP	LED 10W 4' T8 HE IS 50K BULK PACK	★	10W	32W	11.6	12.5	19.4	1625	1850	2700	5000K	80	G13
<b>LED 11 WATT T8 TUBE – 3 FOOT GLASS MODEL# T8022</b>													
L11T83D5030K	LED 11W 3' T8 IS 30K		11W	25W	11.6	13.5	19.2	1040	1400	1870	3000K	80	G13
L11T83D5035K	LED 11W 3' T8 IS 35K		11W	25W	11.6	13.5	19.2	1080	1450	1940	3500K	80	G13
L11T83D5041K	LED 11W 3' T8 IS 41K		11W	25W	11.6	13.5	19.2	1110	1500	2000	4100K	80	G13
L11T83D5050K	LED 11W 3' T8 IS 50K		11W	25W	11.6	13.5	19.2	1150	1550	2070	5000K	80	G13
<b>LED 9 WATT T8 TUBE – 2 FOOT GLASS MODEL# T8023</b>													
L9T8D5030K	LED 9W 2' T8 IS 30K		9W	17W	8.5	9.5	14.2	850	1150	1540	3000K	80	G13
L9T8D5035K	LED 9W 2' T8 IS 35K	★	9W	17W	8.5	9.5	14.2	870	1175	1575	3500K	80	G13
L9T8D5041K	LED 9W 2' T8 IS 41K	★	9W	17W	8.5	9.5	14.2	890	1200	1600	4100K	80	G13
L9T8D5050K	LED 9W 2' T8 IS 50K	★	9W	17W	8.5	9.5	14.2	910	1225	1640	5000K	80	G13
<b>LED 15 WATT T8 TUBE – 4 FOOT PLASTIC (DLC SEARCH "LPT815A**")</b>													
LPT815A41KBP	LED 15W 4' T8 IS SC 41K BULK PACK	★	12W	32W	13.0	14.9	21.5	1340	1800	2400	4100K	80	G13

\* 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)

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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).



# LED Instant Start DirecT8™ Ballast Guides

## Instant Start Ballasts Compatible with LED DirecT8™

Manufacturer	Model #	Voltage
ESPEN	VE2P32MVHIPE	UNV
	VE4P32MVHIPE	UNV
GE	GE132MAXL/ULTRA	UNV
	GE132MAXPN/ULTRA	UNV
	GE232MAX347-N	347
	GE232MAXN/ULTRA	UNV
	GE232MAXG-N	UNV
	GE232MAXPN/ULTRA	UNV
	GE232MAXH/ULTRA	UNV
	GE232MAXPH/ULTRA	UNV
	GE232MAXPL/ULTRA	UNV
	GE332MAXL/ULTRA	UNV
	GE332MAXN/ULTRA	UNV
	GE332MAXPN/ULTRA	UNV
	GE332MAXG-N	UNV
	GE332MAXH/ULTRA	UNV
	GE432MAXPL/ULTRA	UNV
	GE432MAXG-N	UNV
Osram/Sylvania	QHE2X32T8/UNV ISN-SC	UNV
	QHE2X32T8/UNV ISL-SC	UNV
	QHE2X32T8/UNV ISH-SC	UNV
	QHE2X32T8/347 ISN-SC	347
	QHE4X32T8/UNV ISN-SC	UNV
	QHE4X32T8/UNV ISL-SC	UNV
	QHE4X32T8/UNV ISH-SC	UNV
	QHE4X32T8/UNV ISH	UNV
	QTP2X32T8/UNV ISN-SC	UNV
	QTP3X32T8/UNV ISN-SC	UNV
	QTP2X32T8/UNV ISL-SC	UNV
	QTP3X32T8/UNV ISL-SC	UNV
	QTP2X32T8/UNV ISH-SC	UNV
	QTP3X32T8/UNV ISH-SC	UNV
QTP4X32T8/UNV ISN-SC	UNV	
Philips/Advance	IOPA-2P32-LW-N	UNV
	IOPA-3P32-LW-N	UNV
	IOPA-4P32-LW-N	UNV
	IOPA-4P32-N	UNV
	IOPA-2P32-HL-N	UNV
	IOPA-3P32-HL-N	UNV
	IOPA-2P32-LW-SC	UNV
	IOPA-4P32-LW-SC	UNV
	IOP-2P32-LW-N	UNV
	IOP-3P32-LW-N	UNV
	IOP-4P32-LW-N	UNV
IOP-3P32-N	UNV	

Manufacturer	Model #	Voltage	
Philips/Advance (cont.)	ICN-1P32-N	UNV	
	ICN-2P32-N	UNV	
	ICN-3P32-N	UNV	
	ICN-2P32-SC	UNV	
	ICN-4P32-N	UNV	
	GOPA-2P32-SC	347	
	GOPA-4P32-SC	347	
	REL-2P32-SC	UNV	
	REL-2P32-RH-TP	UNV	
	VEL-2P32-SC	UNV	
	VEL-4P32-SC	UNV	
	IOP-3P32HL-90L-SC	UNV	
	VOP-2P32-LW	277	
	GEL-2P32-SC	347	
	GEL-3P32-SC	347	
	IOPA-3P32-N	UNV	
	IOPA-2P32-N	UNV	
	ICN-3P32-SC	UNV	
	GEL-3P32-RH-TP	UNV	
	GOPA-2P32-N	347	
	Standard	E432T8IS120/N/AS	UNV
		E232T8IS120/N/AS	UNV
E432PI347G0/347		347	
E232T8IS347/H/90C		347	
E432T8IS347/H/90C		347	
TCP	E2P32ISUNVE	UNV	
	E2P32ISUNVHE	UNV	
	E2P32ISUNVLE	UNV	
	E3P32ISUNVE	UNV	
	E3P32ISUNVHE	UNV	
	E3P32ISUNVLE	UNV	
	E4P32ISUNVE	UNV	
	E4P32ISUNVHE	UNV	
	E4P32ISUNVLE	UNV	
	E2P32IS120RES	UNV	
Universal	B132IUNVHP-N	UNV	
	B232IUNVHP-N	UNV	
	B232IUNVEL-A rev D	UNV	
	B232I277RHA	277	
	B232IUNVHP-N	UNV	
	B332IUNVHPA	UNV	
	B432I1277RHA	277	
	B432I120RHA	UNV	
	B232I120RHA*	UNV	
	B432I1UNVHPA	UNV	
	B23IUNVHP-N010C	UNV	
B232IUNVEL-A	UNV		
Keystone	KTEB-232-UV-IS-N-P	UNV	

## Emergency Ballasts Compatible with LED DirecT8™

Manufacturer	Model #	Voltage
IOTA	I320	I320
Bodine	B30	B30
	B50	B50

\*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.

