



DIRECT8
LED

LED Instant Start T8 Tubes

Product Specifications
Type A



Reasons to choose the LED Instant Start 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

TCP®

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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.

Specifications:

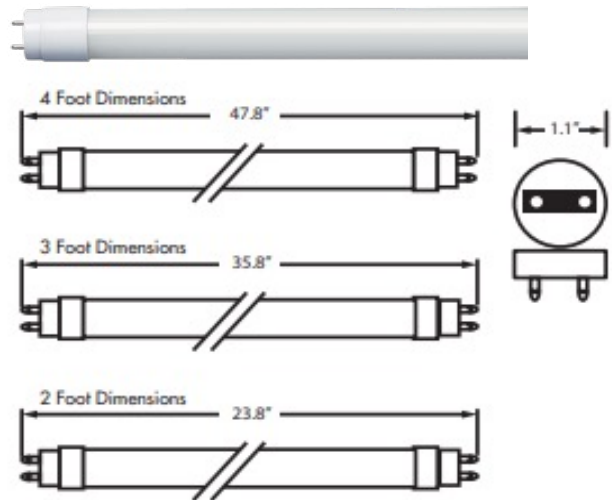
Listing

Damp location rated
Approved for open and enclosed fixtures
cULus or 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 Instant Start DirecT8™ Tubes

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. Flour. Watts
LED 12 WATT 4' TUBE													
L12T8D5030K	LED 12W 4' T8 IS 30K	L12T8D5030K	12	13.0	14.9	21.5	1260	1700	2280	114.1	3000K	80	32W
L12T8D5035K	LED 12W 4' T8 IS 35K	L12T8D5035K	12	13.0	14.9	21.5	1300	1750	2340	117.4	3500K	80	32W
L12T8D5041K	LED 12W 4' T8 IS 41K	L12T8D5041K	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32W
L12T8D5050K	LED 12W 4' T8 IS 50K	L12T8D5050K	12	13.0	14.9	21.5	1380	1850	2480	124.2	5000K	80	32W
L12T8D5030KBP	LED 12W 4' T8 IS 30K BULK25	L12T8D5030KBP	12	13.0	14.9	21.5	1260	1700	2280	114.1	3000K	80	32W
L12T8D5035KBP	LED 12W 4' T8 IS 35K BULK25	L12T8D5035KBP	12	13.0	14.9	21.5	1300	1750	2340	117.4	3500K	80	32W
L12T8D5041KBP	LED 12W 4' T8 IS 41K BULK25	L12T8D5041KBP	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32W
LED 12 WATT 4' PLASTIC TUBE													
LPT815A41KBP	LED 12W 4' T8 IS PL 41K BULK25	LPT815A41KBP	12	13.0	14.9	21.5	1340	1800	2400	120.8	4100K	80	32W
LED 12 WATT 4' TUBE													
LS4T815IS41K	LED 15W 4' T8 IS 41K		15	14.8	17	24.5	1225	1650	2200	97.1	4100K	80	32W
LED HIGH OUTPUT 9.5 WATT 4' TUBE - PET COATED GLASS NSF2 RATED													
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	32W
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	32W
LED 15 WATT 4' TUBE													
LT818A30K	LED 18W 4' T8 IS 30K	T8043330E	15	15.4	17.5	25.7	2000	2300	3380	131.4	3000K	80	32W
LT818A35K	LED 18W 4' T8 IS 35K	T8043335E	15	15.4	17.5	25.7	2050	2350	3450	134.3	3500K	80	32W
LT818A41K	LED 18W 4' T8 IS 41K	T8043341E	15	15.4	17.5	25.7	2050	2350	3450	134.3	4100K	80	32W
LT818A50K	LED 18W 4' T8 IS 50K	T8043350E	15	15.4	17.5	25.7	2100	2400	3525	137.1	5000K	80	32W
LED 11 WATT 3' TUBE													
L11T83D5027K	LED 11W 3' T8 IS 27K		11	11.6	13.5	19.2	950	1300	1730	96.3	2700K	80	25W
L11T83D5030K	LED 11W 3' T8 IS 30K		11	11.6	13.5	19.2	1040	1400	1870	103.7	3000K	80	25W
L11T83D5035K	LED 11W 3' T8 IS 35K		11	11.6	13.5	19.2	1080	1450	1940	107.4	3500K	80	25W
L11T83D5041K	LED 11W 3' T8 IS 41K		11	11.6	13.5	19.2	1110	1500	2000	111.1	4100K	80	25W
L11T83D5050K	LED 11W 3' T8 IS 50K		11	11.6	13.5	19.2	1150	1550	2070	114.8	5000K	80	25W
LED 9 WATT 2' TUBE													
L9T8D5027K	LED 9W 2' T8 IS 27K		9	8.5	9.5	14.2	800	1100	1470	115.8	2700K	80	17W
L9T8D5030K	LED 9W 2' T8 IS 30K		9	8.5	9.5	14.2	850	1150	1540	121.1	3000K	80	17W
L9T8D5035K	LED 9W 2' T8 IS 35K	L9T8D5035K	9	8.5	9.5	14.2	870	1175	1575	123.7	3500K	80	17W
L9T8D5041K	LED 9W 2' T8 IS 41K	L9T8D5041K	9	8.5	9.5	14.2	890	1200	1600	126.3	4100K	80	17W
L9T8D5050K	LED 9W 2' T8 IS 50K	L9T8D5050K	9	8.5	9.5	14.2	910	1225	1640	128.9	5000K	80	17W
LED 11 WATT HIGH EFFICACY 4' TUBE													
L11T8D5030K	LED 11W 4' T8 HE IS 30K		11	11.3	13.6	18.5	1340	1800	2410	132.4	3000K	80	32W
L11T8D5035K	LED 11W 4' T8 HE IS 35K	L11T8D5035K	11	11.3	13.6	18.5	1380	1850	2480	136	3500K	80	32W
L11T8D5041K	LED 11W 4' T8 HE IS 41K	L11T8D5041K	11	11.3	13.6	18.5	1410	1900	2540	139.7	4100K	80	32W
L11T8D5050K	LED 11W 4' T8 HE IS 50K	L11T8D5050K	11	11.3	13.6	18.5	1450	1950	2610	143.4	5000K	80	32W
LED 10 WATT HIGH EFFICACY 4' TUBE													
T8043040EBP	LED 10W 4' T8 HE IS 41K	T8043040E	10	11.6	13.2	19.4	1625	1850	2700	140.2	4100K	80	32W
LED 12 WATT 4' TUBE HIGH CRI													
L12T8D5027K95	LED 12W 4' T8 IS/RS 27K 95		12	13.0	14.9	21.5	1300	1750	2340	117.4	2700K	90	32W
L12T8D5030K95	LED 12W 4' T8 IS/RS 30K 95		12	13.0	14.9	21.5	1340	1800	2400	120.8	3000K	90	32W
L12T8D5035K95	LED 12W 4' T8 IS/RS 35K 95		12	13.0	14.9	21.5	1340	1800	2400	120.8	3500K	90	32W
L12T8D5041K95	LED 12W 4' T8 IS/RS 41K 95		12	13.0	14.9	21.5	1360	1825	2425	122.5	4100K	90	32W
L12T8D5050K95	LED 12W 4' T8 IS/RS 50K 95		12	13.0	14.9	21.5	1380	1850	2480	124.2	5000K	90	32W

* DLC qualified product at time of printing, consult designlights.org for the most up-to-date listing.

For the most up-to-date specs and warranty information, please visit www.tcp.com



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
	GE432MAXN/ULTRA	UNV
	GE432MAXH/ULTRA	UNV
	GE432MAXPH/ULTRA	UNV
	Osram/Sylvania	QHE2X32T8/UNV ISN-SC
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-3P32-HL-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
	E432P347G0/347	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-ISN-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.



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

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