

PROJECT NAME

CATALOG NO.

TYPE

DATE

NOTE

LED DIRECT REPLACEMENT T8

LT8 Series

DESCRIPTION

The LT8 series makes the upgrade to LED quick and easy. This economic solution utilizes existing electronic ballasts, reducing installation costs and maximizing payback. By operating off fluorescent ballast and existing lampholders, implementation of LED is convenient and effortless. Uniform, seamless glass tube design delivers superior light transmission, heat dissipation, glare control, and efficiency. Extensive ballast compatibility allows for versatility.

APPLICATION

Indoor linear applications: troffer, strip, wraparound. Direct replacement to existing fluorescent T8 lamps.



LT8

LED T8

Plug and Play Direct Replacement

24"
48"



SPECIFICATION FEATURES

Features

- High Efficacy: over 100 LPW
- Seamless, Uniform Glass Tube Design
- Wide Beam Angle: 220 degrees
- DLC QPL Listed
- UL for Safety
- 5-year Warranty
- No UV, No Mercury
- Long Life without restrictions on switching
- Extensive ballast compatibility
- Instant On, no delay, no flicker
- Utilizes existing lampholders

Benefits

- Instant Energy Savings
- Reduced Maintenance Costs
- Reduce Energy Consumption and Demand
- Convenient and effortless installation
- Flexibility and Versatility with electronic ballasts
- Highly controllable: ideal for use with sensors
- Allows fixture to maintain original safety compliance
- No Mercury and virtually no UV emission

Certifications / Regulatory

UL 1993/8750. FCC 47 Part 18 Class A. DLC QPL Listed.

Warranty

5-year limited warranty. See complete warranty terms for details.

Quick Ship Items

ORDERING INFORMATION

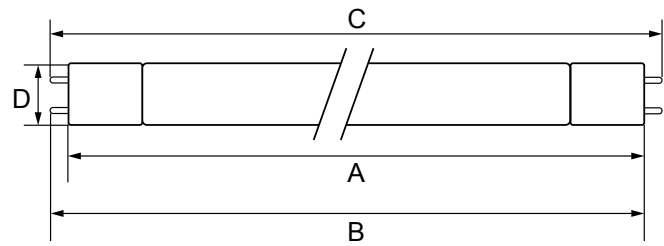
Sample Number: L48T8/850/EB/1800/ES

L	48	T8	8	50	(Blank)	EB	1800	ES
Series	Size	Lamp Type	CRI	Nominal CCT	Input Voltage	Operation	Nominal Lamp Lumens	Output
L = LED	24 = 24" 36 = 36" 48 = 48"	T8 = T8	8 = 82+CRI	30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K	(Blank) = 120V-277V	EB = Operates with electronic ballast	1600 = 1600 lumens (48") 1800 = 1800 lumens (48") 2200 = 2200 lumens (48") 1450 = 1450 lumens (36") 1150 = 1150 lumens (24")	ES = Energy Saving (Low wattage) (Blank) = Normal Output

SUMMARY

Input Voltage (depends on ballast)	120V-277V
Frequency (Ballast)	50/60 Hz
Power Factor	> 0.95
THD (Max.)	20%
Starting Time	< 1.0 s
Controls/Dimming	Depends on ballast
CRI	> 82
CCT	3000K, 3500K, 4000K, 5000K
Operation	Works with electronic ballast: instant start, programmed start, and rapid start
Operating Temperature	-30°C to 40°C
Beam Angle	220
Lumen Maintenance (@6000 hrs)	> 95%
Rated Life	50,000 hours

DIMENSIONS



	48"		24"	
	Min (in)	Max (in)	Min (in)	Max (in)
A	N/A	47.2	N/A	23.2
B	47.4	47.5	23.4	23.5
C	47.7	47.8	23.7	23.8
D	1.0	1.0	1.0	1.0

ENERGY DATA

LAMP PERFORMANCE DATA

Model No.	Nominal Lamp Lumens	Lamp Wattage	Bare Lamp Efficacy (LPW)	Base Type	MOL (in)	Beam Angle	CRI	CCT
Low Wattage - 4' Lamp								
L48T8/830/EB/1800/ES	1800	12	150	G13	48"	220°	82	3000K
L48T8/835/EB/1800/ES	1800	12	150	G13	48"	220°	82	3500K
L48T8/840/EB/1800/ES	1800	12	150	G13	48"	220°	82	4000K
L48T8/850/EB/1800/ES	1800	12	150	G13	48"	220°	82	5000K
Normal Output - 4' Lamp								
L48T8/830/EB/1800	1800	14	129	G13	48"	220°	82	3000K
L48T8/835/EB/1800	1800	14	129	G13	48"	220°	82	3500K
L48T8/840/EB/1800	1800	14	129	G13	48"	220°	82	4000K
L48T8/850/EB/1800	1800	14	129	G13	48"	220°	82	5000K
High Output - 4' Lamp								
L48T8/830/EB/2200	2200	17	129	G13	48"	220°	82	3000K
L48T8/835/EB/2200	2200	17	129	G13	48"	220°	82	3500K
L48T8/840/EB/2200	2200	17	129	G13	48"	220°	82	4000K
L48T8/850/EB/2200	2200	17	129	G13	48"	220°	82	5000K
3' Lamp								
L36T8/830/EB/1450	1450	11	132	G13	36"	220°	82	3000K
L36T8/835/EB/1450	1450	11	132	G13	36"	220°	82	3500K
L36T8/840/EB/1450	1450	11	132	G13	36"	220°	82	4000K
L36T8/850/EB/1450	1450	11	132	G13	36"	220°	82	5000K
2' Lamp								
L24T8/830/EB/1150	1150	9	128	G13	24"	220°	82	3000K
L24T8/835/EB/1150	1150	9	128	G13	24"	220°	82	3500K
L24T8/840/EB/1150	1150	9	128	G13	24"	220°	82	4000K
L24T8/850/EB/1150	1150	9	128	G13	24"	220°	82	5000K

SYSTEM PERFORMANCE DATA

Wattage and Lumens are listed as per lamp averages

Model No.	2-Lamp Ballast						3-Lamp Ballast						4-Lamp Ballast					
	Low BF (0.77)		Normal BF (0.88)		High BF (1.18)		Low BF (0.77)		Normal BF (0.88)		High BF (1.18)		Low BF (0.77)		Normal BF (0.88)		High BF (1.18)	
	Watts	lm	Watts	lm	Watts	lm	Watts	lm	Watts	lm	Watts	lm	Watts	lm	Watts	lm	Watts	lm
Low Wattage - 4' Lamp																		
L48T8/830/EB/1800/ES	12.5	1437	15.5	1800	20.5	2205	12.2	1470	14.9	1727	18.8	2223	13	1550	14.2	1730	19	2276
L48T8/835/EB/1800/ES	12.5	1437	15.5	1800	20.5	2205	12.2	1470	14.9	1727	18.8	2223	13	1550	14.2	1730	19	2276
L48T8/840/EB/1800/ES	12.5	1437	15.5	1800	20.5	2205	12.2	1470	14.9	1727	18.8	2223	13	1550	14.2	1730	19	2276
L48T8/850/EB/1800/ES	12.5	1437	15.5	1800	20.5	2205	12.2	1470	14.9	1727	18.8	2223	13	1550	14.2	1730	19	2276
Normal Output - 4' Lamp																		
L48T8/830/EB/1800	14.3	1615	17.5	1900	23.5	2589	14.2	1654	16.1	1872	22	2568	14.2	1697	15.7	1893	20.9	2382
L48T8/835/EB/1800	14.3	1615	17.5	1900	23.5	2589	14.2	1654	16.1	1872	22	2568	14.2	1697	15.7	1893	20.9	2382
L48T8/840/EB/1800	14.3	1615	17.5	1900	23.5	2589	14.2	1654	16.1	1872	22	2568	14.2	1697	15.7	1893	20.9	2382
L48T8/850/EB/1800	14.3	1615	17.5	1900	23.5	2589	14.2	1654	16.1	1872	22	2568	14.2	1697	15.7	1893	20.9	2382
High Output - 4' Lamp																		
L48T8/830/EB/2200	17.4	1956	21	2300	29.4	3093	16.3	1901	20	2252	27	3048	17.8	1980	19.7	2233	27	3059
L48T8/835/EB/2200	17.4	1956	21	2300	29.4	3093	16.3	1901	20	2252	27	3048	17.8	1980	19.7	2233	27	3059
L48T8/840/EB/2200	17.4	1956	21	2300	29.4	3093	16.3	1901	20	2252	27	3048	17.8	1980	19.7	2233	27	3059
L48T8/850/EB/2200	17.4	1956	21	2300	29.4	3093	16.3	1901	20	2252	27	3048	17.8	1980	19.7	2233	27	3059

SYSTEM POWER

Wattage listed as total system power (with ballast)

Model No.	2-Lamp Ballast			3-Lamp Ballast			4-Lamp Ballast		
	Low BF (0.77)	Normal BF (0.88)	High BF (1.18)	Low BF (0.77)	Normal BF (0.88)	High BF (1.18)	Low BF (0.77)	Normal BF (0.88)	High BF (1.18)
	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts	Watts
F32T8	48	59	74	73	85	122	96	112	150
Low Wattage - 4' Lamp									
L48T8/830/EB/1800/ES	25	31	41	36.6	44.7	56.4	52	56.8	76
L48T8/835/EB/1800/ES	25	31	41	36.6	44.7	56.4	52	56.8	76
L48T8/840/EB/1800/ES	25	31	41	36.6	44.7	56.4	52	56.8	76
L48T8/850/EB/1800/ES	25	31	41	36.6	44.7	56.4	52	56.8	76
Normal Output - 4' Lamp									
L48T8/830/EB/1800	28.6	35	47	42.6	48.3	66	56.8	62.8	83.6
L48T8/835/EB/1800	28.6	35	47	42.6	48.3	66	56.8	62.8	83.6
L48T8/840/EB/1800	28.6	35	47	42.6	48.3	66	56.8	62.8	83.6
L48T8/850/EB/1800	28.6	35	47	42.6	48.3	66	56.8	62.8	83.6
High Output - 4' Lamp									
L48T8/830/EB/2200	34.8	42	58.8	48.9	60	81	71.2	78.8	108
L48T8/835/EB/2200	34.8	42	58.8	48.9	60	81	71.2	78.8	108
L48T8/840/EB/2200	34.8	42	58.8	48.9	60	81	71.2	78.8	108
L48T8/850/EB/2200	34.8	42	58.8	48.9	60	81	71.2	78.8	108

