

LED Linear Lamp

Models for fluorescent linear lamp replacement

2', 3', 4', 5' lamp specification



various lamp lengths available

LED T8 models available in Glass and Plastic enclosures

Applications Include:

- General lighting (office, education, medical facilities)
- Warehouse and distribution (high bay fixtures)
- Cooler and refrigeration
- Display case and shelf lighting
- Parking garage

Energy Savings over 40-50% when compared to existing fluorescent T8 and T12 electronic and magnetic ballasted fixture applications.

For additional energy savings of 20 to 30% use with low ballast factor ballast or lighting control system.

Installation is easy and saves money. Just change the existing fluorescent lamps without the need to rewire the light fixture.

Install LED lamp using existing fluorescent ballast.

LED lamp models are available in 3000k, 3500k, 4000k, 5000K, 6000k and 6500k color temperatures. LED lamps available to support 2', 3', 4', 5', 8', U-Bend and TTL/BIAX lamp applications.



Direct Replacement lamps

LED linear direct replacement lamp models require NO Re-WIRING of the fluorescent light fixture and provides excellent energy savings when replacing T8 or T12 fluorescent lamps.

Installation is easy...just remove existing fluorescent lamp and install the LED linear lamp.

ELB offers a wide selection of liner fluorescent replacement lamps.

Multi-ABC: Specially designed for 100% compatibility with T8 ballasts. ELB's special design eliminates all ballast power issue often experienced with other designs. Excellent choice for Resellers and Distributors when selling into projects with unknown ballast types.

Multi-OP: Designed for operation on both T8 and T12 ballast types. Good choice for Contractors and ESCO's when the ballast type is known and different lamp types are on a project.

Contractor Series: LED direct replacement lamp models tuned specifically for replacement of T8 or T12 fluorescent lamps. Good choice for Contractors and ESCO's when the ballast type is known.

ELB LED linear lamps are also compatible with existing fluorescent battery back-up ballasts.

Benefits:

- Light distribution angle of 270 degrees
- Excellent for low temperature applications
- High Performance DLC qualified models available
- Use with occupancy sensors with frequent starting
- Dimmable (with compatible driver / ballast)
- Less Vibration and impact resistant
- Instant ON operation
- Suitable for damp locations
- Meets UL standard 1598c and UL standard 1993
- Long life product (>50,000 hours)
- Rotatable end caps for refrigeration and shelf lighting applications (optional on some models)
- 5 Year manufacturer's warranty

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Performance Specifications:

LED Multi-ABC lamp: Premium All Ballast Compatible (ABC) design

achieves 100% T8 fluorescent ballast compatibility

Performance with different ballast types	Lamp length and size	Lamp Wattage	Lamp Lumen Efficacy	Installation T8 IS Electronic ballast		Installation T8 Program Start Electronic ballast	
				Lumens	Average System Watts	Lumens	Average System Watts
Model #							
LEDT8-48-14-850-RHF	LED 4' T8	14.30	121.40	1740	14.00	1740	14.5
LEDT8-48-14-840-RHF	LED 4' T8	14.25	122.40	1745	14.00	1745	14.5
LEDT8-48-14-835-RHF	LED 4' T8	14.18	118.20	1750	14.00	1750	14.5
LEDT8-48-14-830-RHF	LED 4' T8	14.00	125.50	1760	14.00	1760	14.5

* High Performance DLC qualified models are for T8 ballast operation only.

LED Multi-Op lamp: Multi operation supports T8 and T12 ballast

Performance with different ballast types	Type	Bare Lamp Wattage	Installation T8 IS Electronic ballast		Installation T8 Program Start Electronic ballast		Installation T12 Magnetic ballast	
			Lumens	Average System Watts	Lumens	Average System Watts	Lumens	Average System Watts
Model #								
LEDT8-8-865-B-RSF	LED 2' T8	8.4	1115	9.30	1115	9.60	1320	14.00
LEDT8-8-860-B-RSF	LED 2' T8	8.4	1055	9.30	1055	9.60	1245	14.00
LEDT8-8-850-B-FHF*	LED 2' T8	8.4	945	9.30	945	9.60	1180	14.00
LEDT8-8-840-B-FHF*	LED 2' T8	8.4	920	9.30	920	9.60	1160	14.00
LEDT8-8-835-B-FHF*	LED 2' T8	8.4	900	9.30	900	9.60	1140	14.00
LEDT8-8-830-B-FHF*	LED 2' T8	8.4	890	9.30	890	9.60	1140	14.00
LEDT8-12-850-B-RSF	LED 3' T8	11.0	1250	13.00	1250	13.00	2400	34.00
LEDT8-12-840-B-RSF	LED 3' T8	11.0	1225	13.00	1225	13.00	2500	34.00
LEDT8-12-835-B-RSF	LED 3' T8	11.0	1150	13.00	1150	13.00	2500	34.00
LEDT8-12-830-B-RSF	LED 3' T8	11.0	1130	13.00	1150	13.00	2700	34.00
LEDT8-17-865-B-RSF	LED 4' T8	15.2	1865	16.8	1865	17.00	2600	31.0
LEDT8-17-860-B-RSF	LED 4' T8	15.2	1820	16.8	1820	17.00	2550	31.0
LEDT8-17-850-B-FHF*	LED 4' T8	15.2	1785	16.8	1785	17.00	2500	31.0
LEDT8-17-840-B-FHF*	LED 4' T8	15.2	1700	16.8	1700	17.00	2200	31.0
LEDT8-17-835-B-FHF*	LED 4' T8	15.2	1683	16.8	1683	17.00	2100	31.0
LEDT8-17-830-B-FHF*	LED 4' T8	15.2	1660	16.8	1660	17.00	2100	31.0
LEDT8-22-850-B-RSF	LED 4' T8	20.0	2200	22.00	2200	22.00	2600	34.0
LEDT8-22-840-B-RSF	LED 4' T8	20.0	2150	22.00	2150	22.00	2500	34.0
LEDT8-22-835-B-RSF	LED 4' T8	20.0	2000	22.00	2000	22.00	2400	34.0
LEDT8-22-830-B-RSF	LED 4' T8	20.0	2000	22.00	2000	22.00	2400	34.0

* High Performance DLC qualified models are for T8 ballast operation only.

Part number designation:

F - Fixed or R - Rotatable locking end caps ————
 S - Standard or H - High Performance ————
 High Performance = DLC qualified models
 C - Clear* or F - Frosted Lens ————

*Clear lens special order

Additional Lamp Specifications:

Color Temp (K) – Available in 3000k, 3500k, 4000k and 5000k.
 Average Life – 50,000 Hours
 Beam Angle – 270 Degree
 CRI – 83

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Contractor Series - LED T8 Only lamp:

Performance with different ballast types	Lamp length and size	Lamp Wattage	Installation T8 IS Electronic ballast		Installation T8 Program Start Electronic ballast		Installation T12 ballast	
			Lumens	Average System Watts	Lumens	Average System Watts	Lumens	Average System Watts
Model #								
Direct Replacement for T8 only fluorescent lamps - Plastic Enclosure								
LEDT8E-24-8-850-RSF	LED 2' T8	7.5	1090	9.3	1090	10.5	-	-
LEDT8E-24-8-840-RSF	LED 2' T8	7.5	1080	9.3	1080	10.5	-	-
LEDT8E-24-8-835-RSF	LED 2' T8	7.5	1060	9.3	1060	10.5	-	-
LEDT8E-24-8-830-RSF	LED 2' T8	7.5	1010	9.3	1010	10.5	-	-
LEDT8E-36-12-850-RSF	LED 3' T8	9.5	1260	11.5	1260	12.5	-	-
LEDT8E-36-12-840-RSF	LED 3' T8	9.5	1215	11.5	1215	12.5	-	-
LEDT8E-36-12-835-RSF	LED 3' T8	9.5	1200	11.5	1200	12.5	-	-
LEDT8E-36-12-830-RSF	LED 3' T8	9.5	1130	11.5	1130	12.5	-	-
LEDT8E-48-17-850-RHF*	LED 4' T8	16.5	1972	17.8	1972	18.5	-	-
LEDT8E-48-17-840-RHF*	LED 4' T8	16.5	1886	17.8	1886	18.5	-	-
LEDT8E-48-17-835-RHF*	LED 4' T8	16.5	1790	17.8	1790	18.5	-	-
LEDT8E-48-17-830-RHF*	LED 4' T8	16.5	1700	17.8	1700	18.5	-	-
LEDT8E-48-22-850-RHF*	LED 4' T8	20.7	2350	22.0	2350	23.5	-	-
LEDT8E-48-22-840-RHF*	LED 4' T8	20.7	2300	22.0	2300	23.5	-	-
LEDT8E-48-22-835-RHF*	LED 4' T8	20.7	2250	22.0	2250	23.5	-	-
LEDT8E-48-22-830-RHF	LED 4' T8	20.7	2200	22.0	2200	23.5	-	-
LEDT8E-60-27-850-RSF	LED 5' T8	25.7	2950	27.0	2950	28.5	-	-
LEDT8E-60-27-840-RSF	LED 5' T8	25.7	2900	27.0	2900	28.5	-	-
LEDT8E-60-27-835-RSF	LED 5' T8	25.7	2850	27.0	2850	28.5	-	-
LEDT8E-60-27-830-RSF	LED 5' T8	25.7	2800	27.0	2800	28.5	-	-
Direct Replacement for T8 only fluorescent lamps - Glass Enclosure								
LEDT8E-48-14-850-G-FHF*	LED 4' T8	13.1	1750	14.5	1750	15.0	-	-
LEDT8E-48-14-840-G-FHF*	LED 4' T8	13.1	1720	14.5	1720	15.0	-	-
LEDT8E-48-14-835-G-FHF*	LED 4' T8	13.1	1690	14.5	1690	15.0	-	-
LEDT8E-48-14-830-G-FHF*	LED 4' T8	13.1	1650	14.5	1650	15.0	-	-
LEDT8E-48-16-850-G-FHF	LED 4' T8	14.4	1900	16.5	1900	17.0	-	-
LEDT8E-48-16-840-G-FHF	LED 4' T8	14.4	1850	16.5	1850	17.0	-	-
LEDT8E-48-16-835-G-FHF	LED 4' T8	14.4	1800	16.5	1800	17.0	-	-
LEDT8E-48-16-830-G-FHF	LED 4' T8	14.4	1750	16.5	1750	17.0	-	-

Contractor Series - LED T12 Only lamp:

LED Direct Replacement for T12 only Fluorescent lamps – Plastic Enclosure								
Performance with different ballast types	Lamp length and size	Lamp Wattage	Installation T8 IS Electronic ballast		Installation T8 Program Start Electronic ballast		Installation T12 ballast	
			Lumens	Average System Watts	Lumens	Average System Watts	Lumens	Average System Watts
Model #								
LEDT12-48-20-850-RSF	LED 4' T8	15.2	-	-	-	-	1770	17.4 - 20.2
LEDT12-48-20-840-RSF	LED 4' T8	15.2	-	-	-	-	1700	17.4 - 20.2
LEDT12-48-20-835-RSF	LED 4' T8	15.2	-	-	-	-	1683	17.4 - 20.2
LEDT12-48-20-830-RSF	LED 4' T8	15.2	-	-	-	-	1660	17.4 - 20.2

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LED T8 Up/Down T8 only lamp: Provides both Up and Downward illumination

Model #	Type	Installation T8 Instant Start Electronic ballast		Installation T8 Program Start Electronic ballast	
		Lumens	Average System Watts	Lumens	Average System Watts
LEDT8-17-850-U-RSF	LED T8 4'	1607 Down /178 Up	16.8	1607 Down /178 Up	17.0
LEDT8-17-840-U-RSF	LED T8 4'	1530 Down /170 Up	16.8	1530 Down /170 Up	17.0
LEDT8-17-835-U-RSF	LED T8 4'	1515 Down /168 Up	16.8	1515 Down /168 Up	17.0
LEDT8-17-830-U-RSF	LED T8 4'	1494 Down /166 Up	16.8	1494 Down /166 Up	17.0
LEDT8-44-850-U-RSF	LED T8 8'	3450 Down /330 UP	40.2	3450 Down /330 UP	40.2
LEDT8-44-840-U-RSF	LED T8 8'	3450 Down /330 UP	40.2	3450 Down /330 UP	40.2
LEDT8-44-835-U-RSF	LED T8 8'	3200 Down /300 UP	40.2	3200 Down /300 UP	40.2
LEDT8-44-830-U-RSF	LED T8 8'	3200 Down /300 UP	40.2	3200 Down /300 UP	40.2

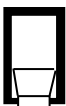
Specification of Standard LED lamp using low and high ballast factor ballasts:

4' LED T8E Performance with different ballast factor Instant Start (IS) ballasts	T8 IS Low Ballast Factor (0.78)		T8 IS Normal Ballast Factor (0.88)		T8 IS High Ballast Factor (1.18)	
	Lumens	System Watts	Lumens	System Watts	Lumens	System Watts
Example						
LEDT8E-48-17-850-RHF	1540	14.0	1972	17.8	2320	21.0
LEDT8E-48-17-840-RHF	1470	14.0	1886	17.8	2220	21.0
LEDT8E-48-17-835-RHF	1400	14.0	1790	17.8	2100	21.0
LEDT8E-48-17-830-RHF	1330	14.0	1700	17.8	2000	21.0
LEDT8E-48-22-850-RHF	1830	17.2	2350	22.0	2770	26.0
LEDT8E-48-22-840-RHF	1790	17.2	2300	22.0	2710	26.0
LEDT8E-48-22-835-RHF	1755	17.2	2250	22.0	2650	26.0
LEDT8E-48-22-830-RHF	1716	17.2	2200	22.0	2590	26.0

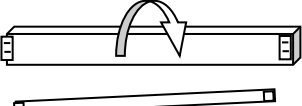
Note: Lamps operate at 120,277 and 377VAC using the existing fluorescent ballast as driver. Results may vary based on ballast manufacture. Photometric testing is consistent with IES-LM-79 and tested to L70 requirements. See Warranty for terms and conditions.

Installation Instructions: Quick and Simple - No re-wiring required


Step 1: Turn Power - OFF




Step 2: Remove Fluorescent lamp



Step 3: Plug in Quick-Fit LED lamp



Step 4: Turn Power - ON



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Application Notes:

- There are multiple types of ballast designs (also called topologies) used in fluorescent light fixtures. To assure proper LED lamp operation and confirm ballast compatibility try product in the fixture before installing large quantities.
- Suitable for damp locations. Avoid applications where lamp can get wet.
- Operating temperature range between -34 °C to 80°C (-29 °F - 176 °F)
- To meet local and national building safety codes most commercial buildings use light fixtures installed with battery backup fluorescent ballasts to provide temporary lighting in the event of a power loss. The most common style of battery back-up ballast (~ 80% market share) switches out one lamp from the existing ballast and powers the fluorescent lamp when in operation. The ELB Quick-Fit LED direct replacement lamp with multi-operation technology is compatible with these standard fluorescent battery back-up ballast products where most other direct replacement LED lamps are not compatible. Check local and state electrical codes for acceptance of use.